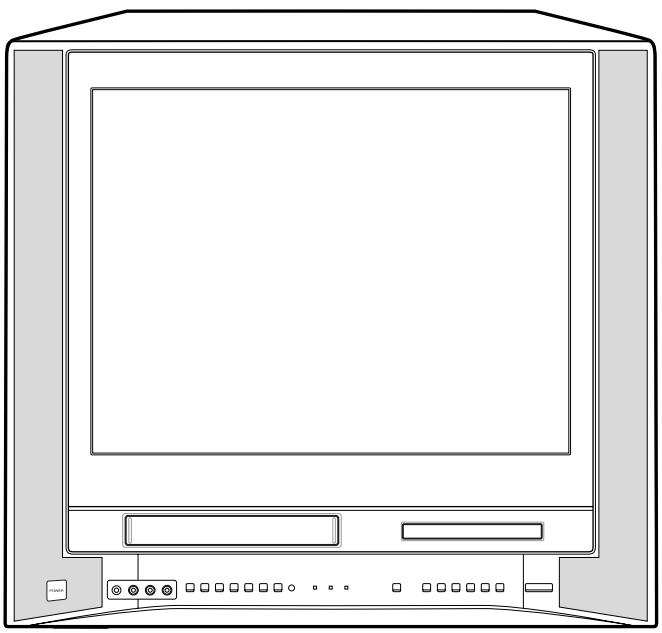
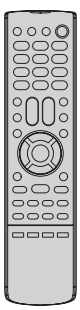
# TOSHIBA

***MODEL VTW2187*** ***USER GUIDE***

**Region 2 / ALL discs only**





***Combination 21" Flat TV and***
***Video Recorder/DVD Video Player***
***FASTEXT***

PAL

## IMPORTANT

Unauthorized recording of copyright television programmes, films, video tapes and other materials may infringe on the rights of copyright owners and be contrary to copyright laws.

## WARNING

To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

## MAINS SUPPLY

This unit is designed to operate from AC 230 ~ 240V 50Hz household mains supply.

This unit is supplied with an approved 13 amp (BS 1363) fused mains plug. When replacing the fuse always use a 5 amp (BS 1362) approved type.
Never use this plug if the fuse cover is missing. To obtain a replacement fuse cover contact your store.
If the mains sockets in your home differ or are not suitable for the type of plug supplied, then the plug should be cut from the mains lead and a suitable type fitted.

**WARNING:** If the mains plug is cut from the mains lead of this appliance the plug must be destroyed. A mains plug with bared wires is hazardous if engaged in a mains output line socket.

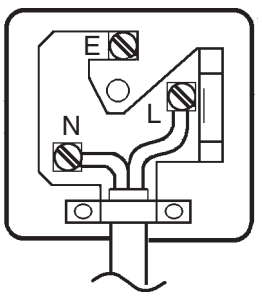
You must use a 13 amp plug (BS 1363) and fit a 5 amp fuse (BS 1362). If any other type of plug is used a 5 amp fuse must be fitted, either in the plug, adaptor or at the distribution board.

## WIRING INSTRUCTIONS

The wires in the mains lead are coloured in accordance with the following code:

| | | |
|---|---|---|
| BLUE | — | NEUTRAL |
| BROWN | — | LIVE |

As the colours of the wires in the mains lead of the appliance may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red.
No connection is to be made to the Earth (E, ⏚ ) terminal.




**CAUTION:**

THIS UNIT IS A CLASS 1 LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE UNIT.

CLASS 1
LASER PRODUCT

WHEN THIS UNIT IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

VIDEO Plus+® VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

**TV/VCR**
- Flat Picture Tube
- Twin Tuner
- Auto Set Up (Channel and Clock)
- FASTEXT Function
- PDC (Programme Delivery Control)
- One-Touch Timer Recording (OTR)
- 30 Minute Back Up
- Real Time Tape Counter with Zero Return
- NTSC Playback (PAL 60Hz)
- On-Screen Programming
- Picture Control Adjustments
- VIDEO Plus+® Recording System
- NICAM Stereo
- Slow Motion
- Video Index Search System
- Digital Auto Tracking
- Programmable ON/OFF Timer
- Auto Power On/Auto Play
- Auto Rewind/Auto Eject
- Dual Speed Picture Search
- 2 Speed (SP/LP) Record/ Playback
- Sleep Timer
- Auto Repeat Play

**DVD Player**
- Digital Audio Jack (Coaxial)
- Multi-Language
- Multi-Angle
- Repeat Playback
- Memory/Random Playback
- Zoom
- Video Aspect Ratio
- Parental Control
- Digital output for Dolby Digital (AC-3) and DTS
- Playback of DVD, Video-CD, SVCD, Audio-CD and MP3/WMA/JPEG-CD
- PAL & NTSC DVDs playback
- A-B Repeat playback

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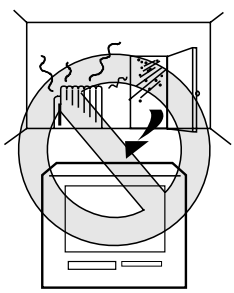
# PRECAUTIONS

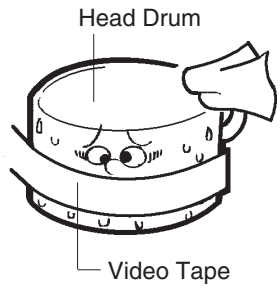
**DO read the operating instructions before you attempt to use the equipment.**
**DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.**
**DO NOT remove any fixed cover as this may expose dangerous voltages.**
**DO NOT place hot objects such as candles or nightlights on, or close to, the equipment. High temperatures can melt plastic and lead to fires.**
**DO NOT use this unit near water or in rainy/moist situations.**

## MOISTURE CONDENSATION

**If the unit is suddenly moved from a cold place to a warm place, moisture may form inside the unit. In this case, do not operate it for two or three hours**.

- **WHAT IS MOISTURE CONDENSATION?**
  When cold water is poured into a glass, for example, water vapor in the air will condense on the surface of the glass. This is called moisture condensation.
- **MOISTURE WILL CONDENSE ON THE UNIT IN THE FOLLOWING CASES;**
  - When you move the unit from a cold to a warm place.
  - After heating a cold room or under extremely humid conditions.
- **IF YOU EXPERIENCE THE ABOVE CONDITIONS;**
  Plug the AC cord to AC outlet, set the Main Power Switch to ON and leave the unit at the room temperature until moisture condensation disappears. Depending on the surrounding conditions, this may take two or three hours.



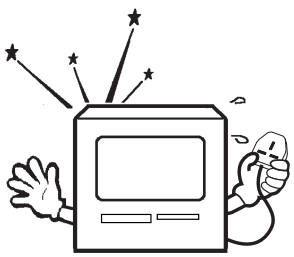



Under certain conditions, such as low humidity or walking across wool carpet, you may experience a static discharge when touching the unit. If this happens and it fails to function, follow the procedure below.

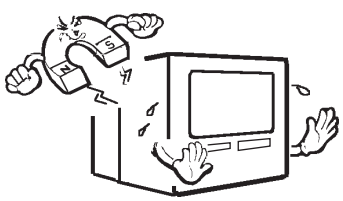
**1)** Un-plug the unit from the AC outlet.

**2)** This may take two or three hours.

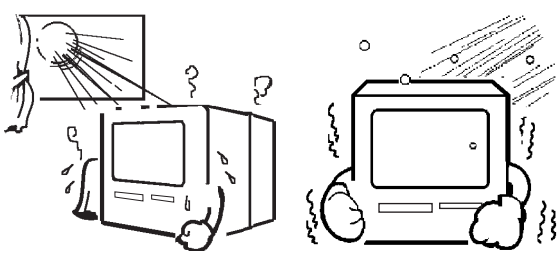
**3)** Re-plug the unit again.



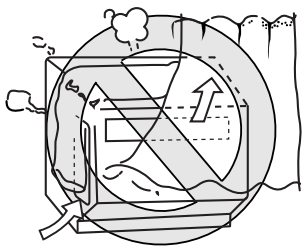
Do not place the unit on or near appliances which may cause electromagnetic interference eg. TV or hi-fi speakers, etc. Doing so may affect operation of unit causing erratic playing or recording, picture or sound distortion, or noise.



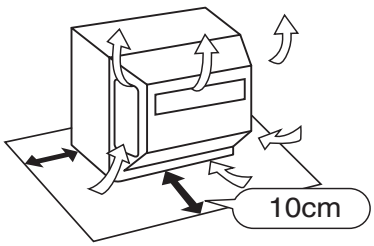
Avoid extreme heat and cold.



Do not block the ventilation holes.

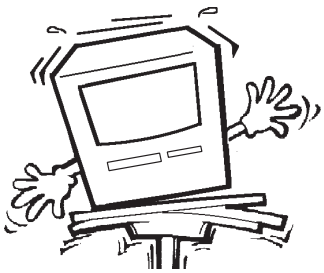


Place the unit at least 10 cm away from the walls for good air circulation.



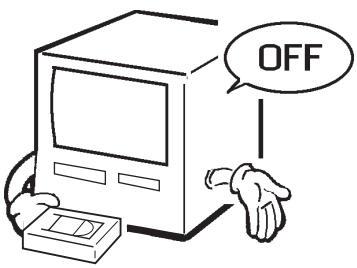

Do not insert fingers or any other objects into the cassette loading slot. Do not spray cleaner or wax directly on the unit or use forced air to remove dust.

Place the unit on a flat, stable, level surface, and never subject it to violent shaking or any other shock or impact.

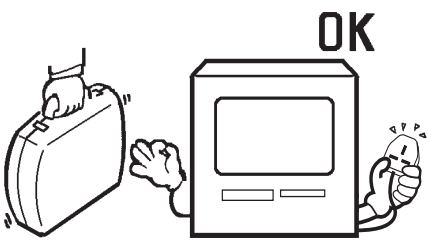


Keep the unit away from flower vases, sink etc. Liquids spilled into the unit can cause serious damages. Switch OFF the Power Supply to the unit and consult a qualified service engineer before attempting to use the unit again.

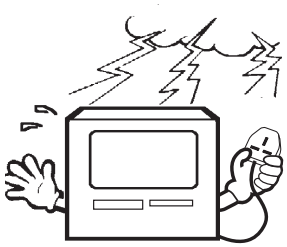
When you finish operating the unit, always unload the cassette and turn off the power.




When you leave your home for a long period of time, unplug the AC mains lead.

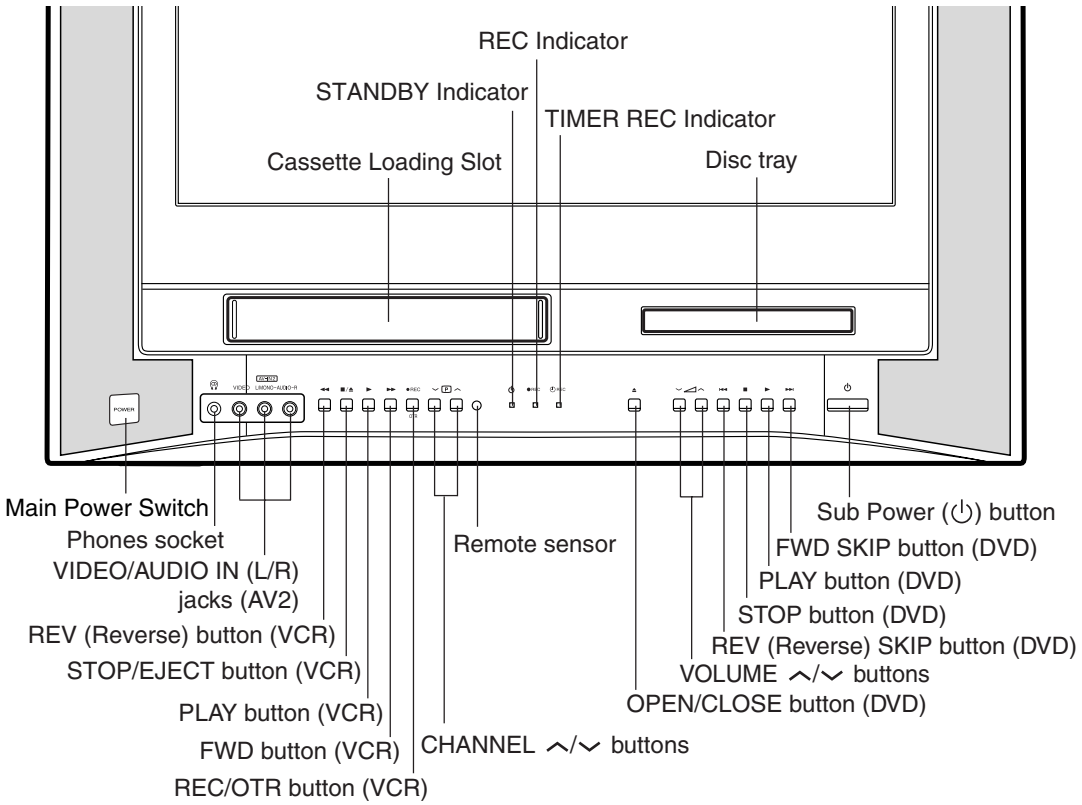



To protect the unit during a thunder storm, unplug the AC mains lead from the wall outlet and disconnect the Aerial.

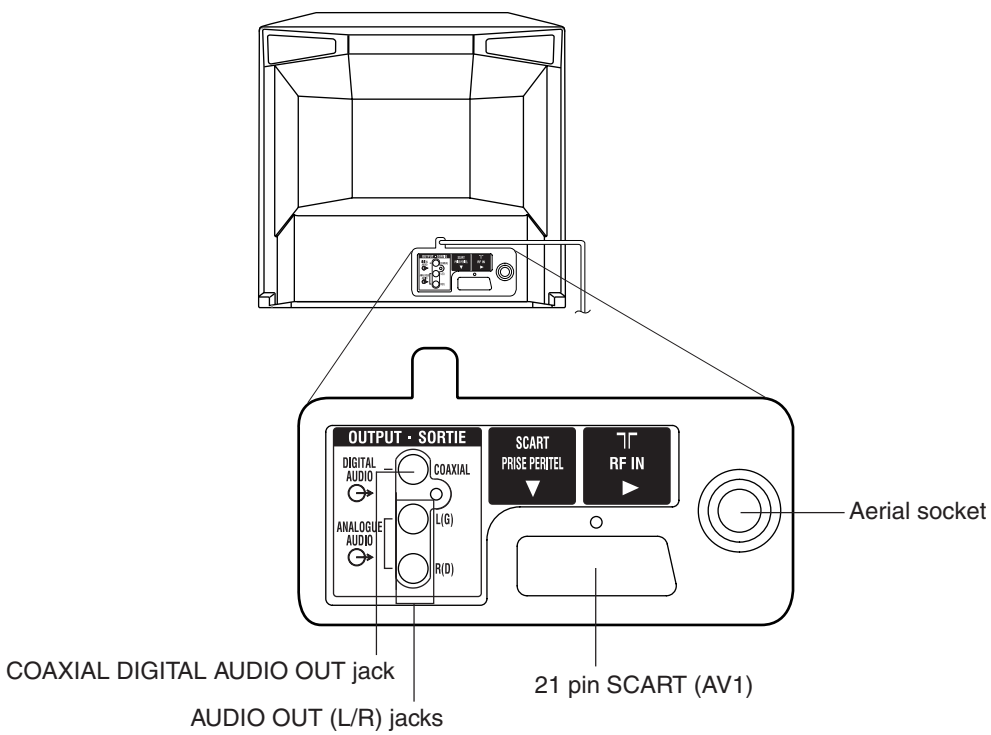


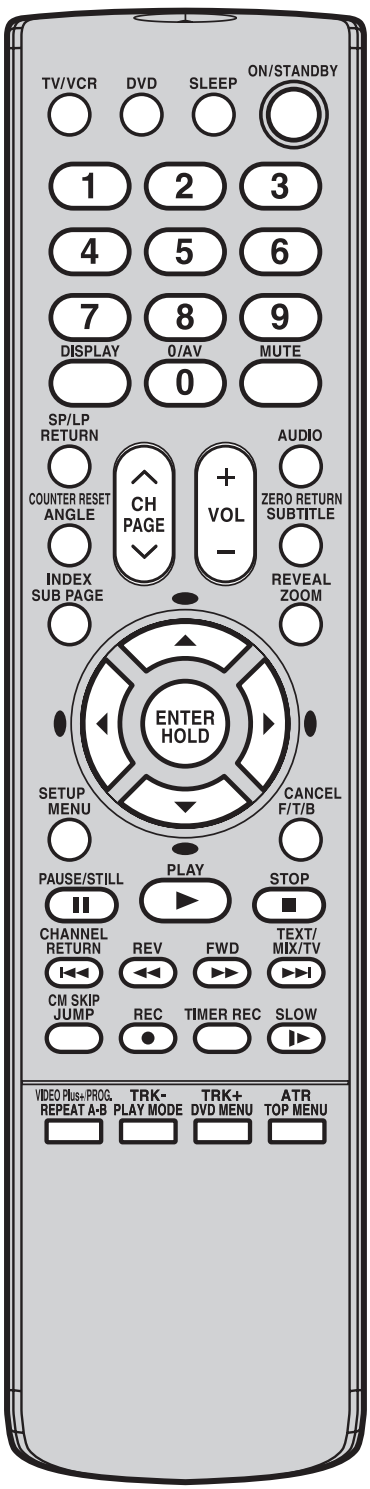
# LOCATION OF CONTROLS

**Front**




**Rear**






| | | Page |
|---|---|---|
| TV/VCR | Select to operate TV/VCR | 11 |
| DVD | Select to operate DVD | 35 |
| SLEEP | Sleep timer | 13 |
| ON/STANDBY | Sub Power on/off | 13 |
| 0-9 | Direct channel selection of TV | 13 |
| | Input setting | 22,43 |
| | Enter a security code | 50 |
| DISPLAY | Display VCR or DVD operation status | 13,27,28,35 |
| AV | Scart Input or AV-Front input | 30 |
| MUTE | Mute | 13 |
| SP/LP | Sets the tape speed for recording | 20,25 |
| RETURN | Remove DVD setup menu | 36,41,42,48~54 |
| COUNTER RESET | Reset the counter to 00:00:00 | 27,28 |
| ANGLE | Change playback angle of a DVD disc | 47 |
| INDEX | Search for INDEX marks | 29 |
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| ZOOM | Zoom (for DVD playback) | 43 |
| ▲ / ▼ / ◀ / ▶ | Cursor buttons | |
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| FWD | Fast Forward/Forward search playback | 18,19,38 |
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| PROG. | Confirmation of Timer-Recording | 24 |
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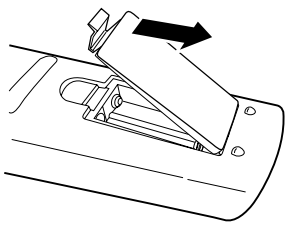
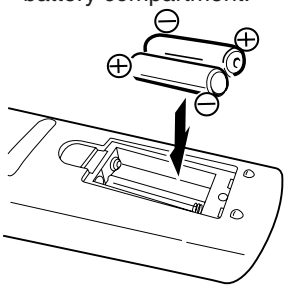
| PLAY MODE | Select playback mode | 44 |
| DVD MENU | Select menu of a DVD disc | 47 |
| ATR | Auto tracking | 18 |
| TOP MENU | Select title of a DVD disc | 47 |

## BATTERY INSTALLATION

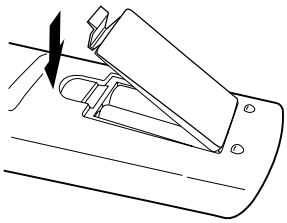
**1** Open the battery compartment cover in the direction of the arrow.



**2** Install two “AAA/R03/UM-4” (penlight size) batteries, paying attention to the polarity diagram in the battery compartment.



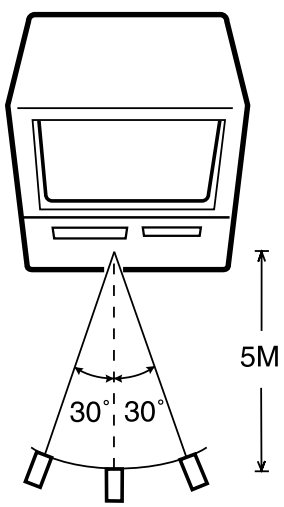
**3** Replace the cover.



## BATTERY CAUTIONS

- Use two “AAA/R03/UM-4” size batteries for the remote control transmitter.
- The batteries may last approximately one year depending on how much the remote control is used. For best performance it is recommended batteries be replaced on a yearly basis, or when remote operation becomes erratic.
- Do not mix old and new batteries.
- Weak batteries can leak and severely damage the remote control transmitter. Always remove batteries as soon as they become weak.
- Dispose of batteries in a designated disposal area.
  Do not throw batteries into a fire.

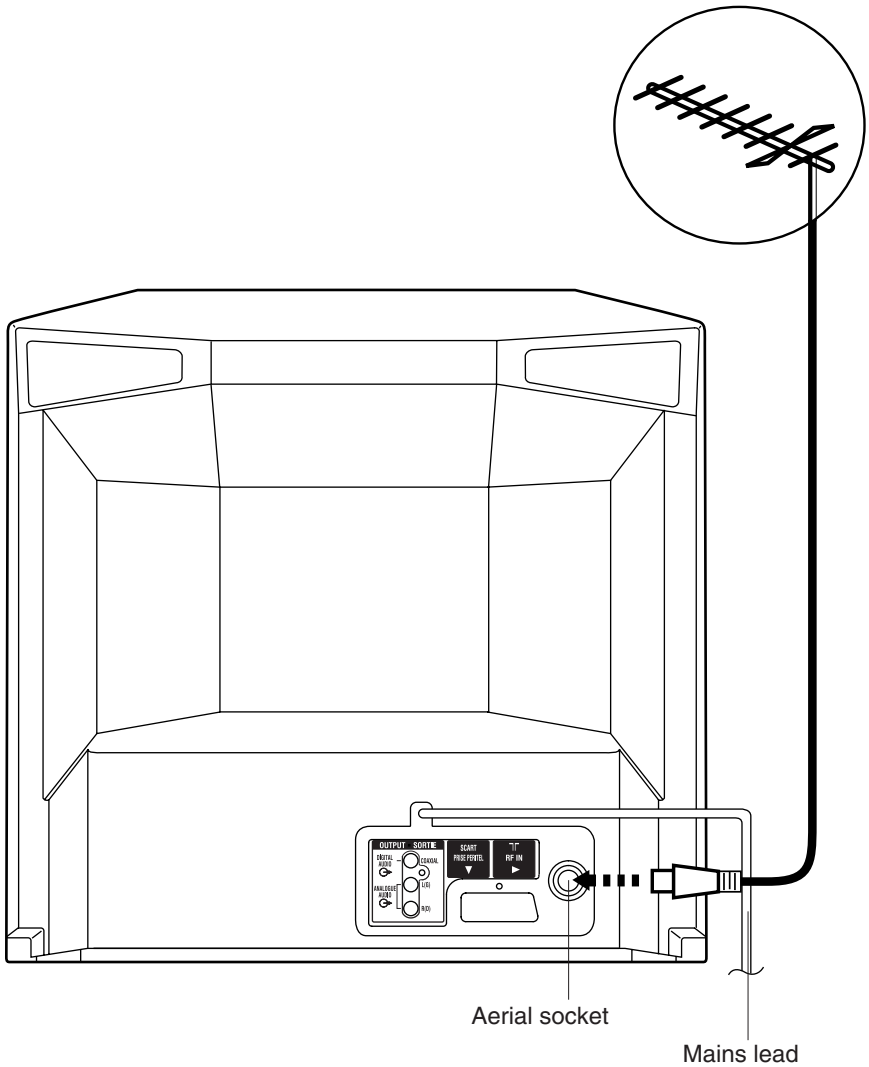
## EFFECTIVE DISTANCE OF THE REMOTE CONTROL TRANSMITTER




**NOTES:**
- When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the remote sensor, the remote operation may be unstable.
- When there is an obstacle between the unit and the transmitter, the remote control transmitter may not operate.

# AERIAL CONNECTIONS

Connect an indoor or outdoor aerial to the aerial socket at the rear panel as shown below.
For all aerial circuit problems, please consult your local dealer.



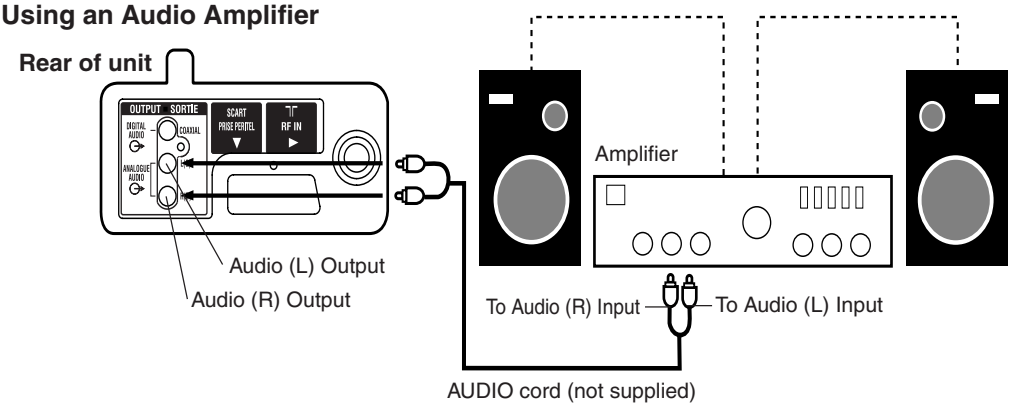

**EXTERNAL AERIAL**

The type of aerial required depends on the position of your home, its distance from the transmitter and local interference. If you do not have an aerial and you are uncertain of what to buy, you should seek the advice of a local aerial contractor.

# CONNECTIONS TO OTHER EQUIPMENT

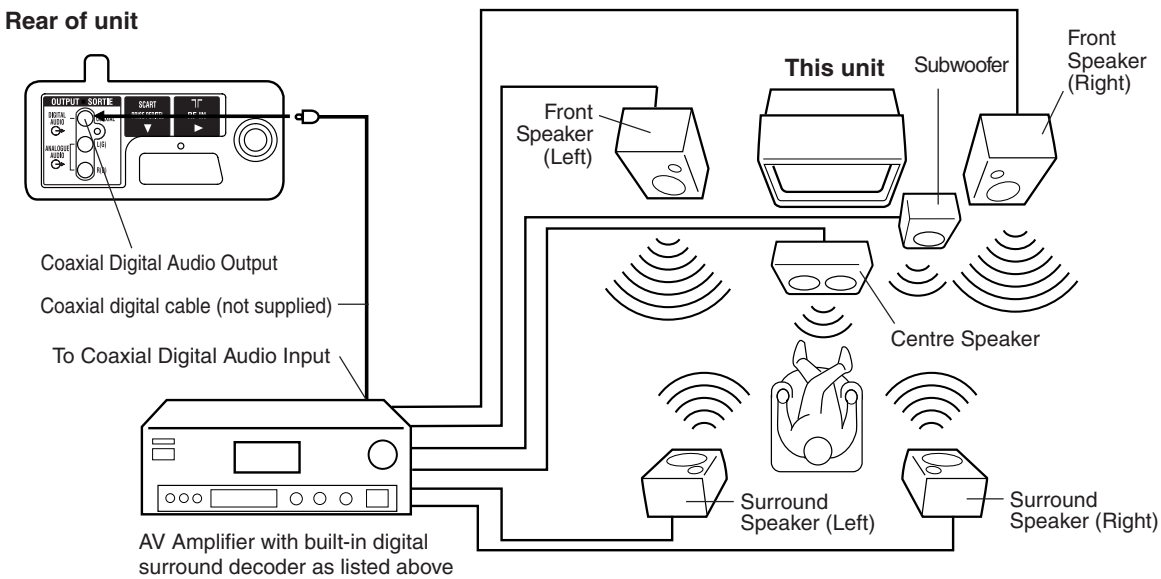
The exact arrangement you use to interconnect various video and audio components to the unit is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

### Using an Audio Amplifier




### Using an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround sound decoder (such as Dolby Digital / DTS / MPEG / etc.), you can connect it as shown below.




* Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

* DTS and DTS Digital Out are trademarks of Digital Theatre Systems, Inc.

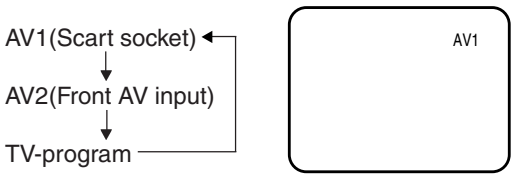
**NOTES:**

- When you make the connections above, make sure that the power of all units is switched off at the mains.
- Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit.
- When playing DTS encoded material, the sound will only be available through the Digital Audio Output Socket.

## Input Selection

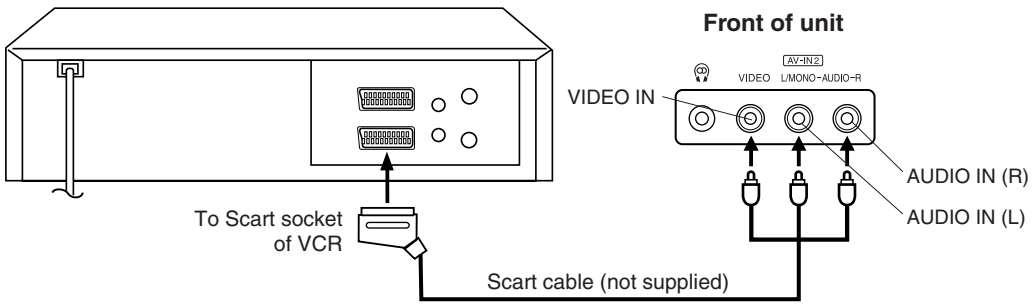
If you connect the unit to a VCR, camcorder or games console, you can select this input by pressing **AV**.

Press **TV/VCR** to select the TV mode and then press **AV** repeatedly to select AV1 or AV2.



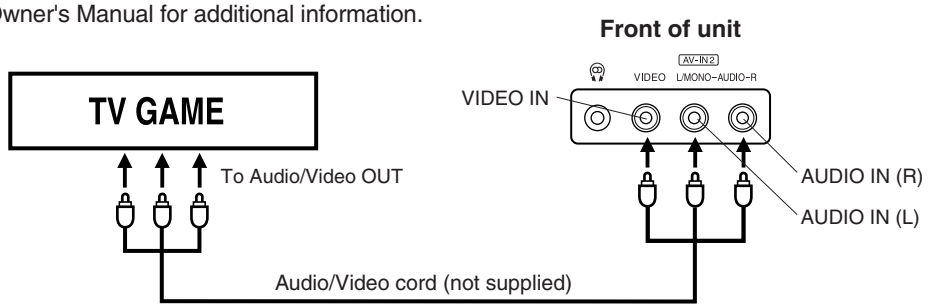

**1. To connect the unit to a VCR**

Press **AV** to select AV2 to use the TV as a monitor.



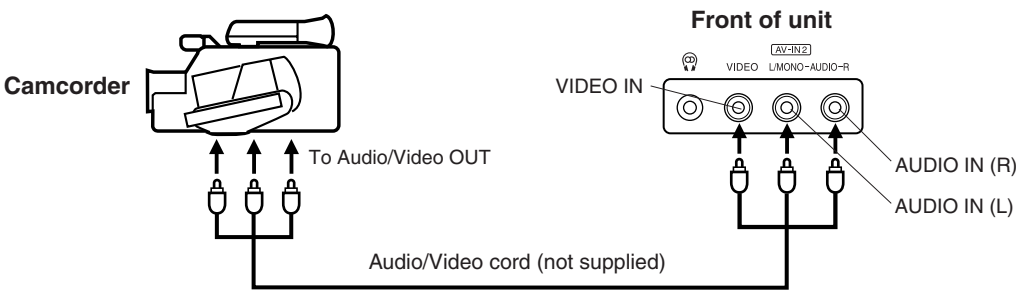

**2. To connect the unit to a TV Game**

The unit can also be used as a display device for many video games. However, due to the wide variety of different types of signal generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. Press **AV** to select AV2 to use the TV as a monitor. You'll need to consult each component's Owner's Manual for additional information.




**3. To connect the unit to a camcorder**

To playback from a camcorder, connect the camcorder to the unit as shown.
Press **AV** to select AV2 to use the TV as a monitor.
If you wish to make a recording from the camcorder, follow the same instructions as recording a TV programme (P.20), but select AV2 for the channel.




**4. To connect the unit to another TV set (ie. a widescreen set)**

Connect the unit and another TV set with a Scart cable.
Press **AV** to select AV1 to use the TV as a monitor (see P.48).

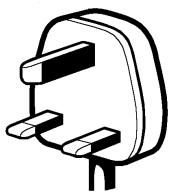
# AUTO SET UP

Make sure an aerial lead is connected from your household aerial (page 7).
You must follow the instructions on this page carefully.
Your unit will not function properly until Auto Set Up has been completed.

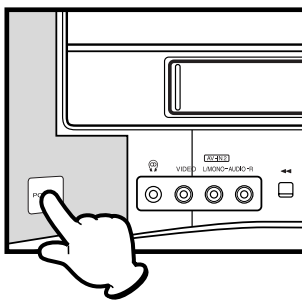
**What is Auto Setup**

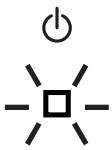
- The AUTO SET UP feature makes installing your unit easy. It automatically searches and tunes all available TV Stations and stores them in your unit, it then sets the correct time and date.
- During a power failure or disconnection of the mains lead, the clock and all its programmed setting will remain in the memory for 30 minutes. If the power failure is longer than 30 minutes you will have to reset the present time.

1 Make sure an aerial lead is connected from your household aerial or cable box (if you subscribe to a cable service).
Plug your unit into a mains socket.

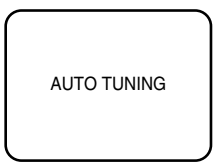


2 Press MAIN POWER switch on the unit. The STANDBY ( ⏻ ) indicator on the unit lights.





3 Wait for a few seconds to warm up and degauss the unit, then press Sub Power ( ⏻ ) button on the unit. The STANDBY ( ⏻ ) indicator on the unit turns off. "AUTO TUNING" appears on the screen. Your unit is now automatically tuning in all available TV stations and setting the correct time and date. If the desired TV stations could not be preset, set the channels manually. See page 12. If the clock could not be set, set the clock manually. See page 11.

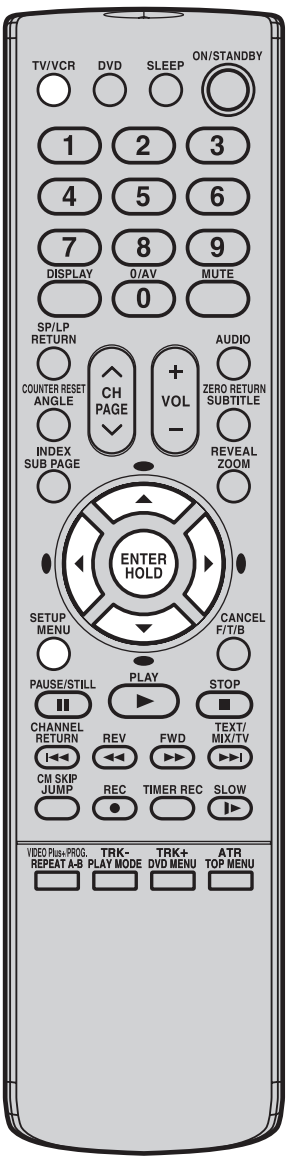



**NOTES:**

- To re-start AUTO SET UP, press and hold P ∨ and ∧ on the unit together for more than a few seconds.
- Once you conduct AUTO SET UP, the previous settings will be cancelled.
- If discolouration occurs on the screen during power on, off the mains socket switch for a few minutes then turn on the unit again following the above procedure.

# MANUAL CLOCK SETTING

**You must set the correct time and date on your unit before you make Timer recordings. You should only need to set the time manually if it was not set during Auto Set Up.**

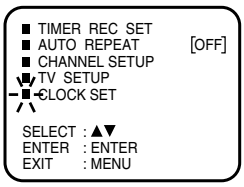



**NOTES:**

- During a power failure, disconnection of the mains lead or if the MAIN POWER Switch is switched off, the clock and all its programmed setting will remain in the memory for 30 minutes. If the power failure is longer than 30 minutes you will have to reset the present time.
- If you want to correct the digits while setting, press ▲ or ▼ until the item you want to correct is blinking, then press ◀ or ▶ to correct the desired setting.

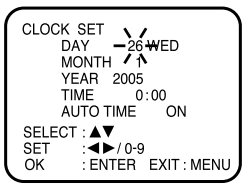
**Preparation**
Press **TV/VCR** to select TV/VCR mode.
**Example:**
Setting the clock to 11:30, 26 March, 2005.

**1** Press **MENU**.
Press ▲ or ▼ to select the CLOCK SET mode, then press **ENTER**.

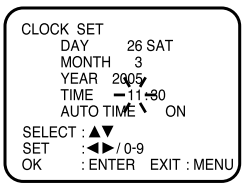



**2** Press ◀ or ▶ to select the current date, then press ▼.

- The day of the week shown will not be correct until you have finished entering the month and year settings.

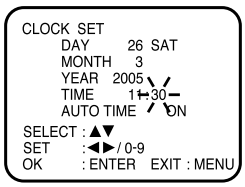



**3** Set the month, year and hour in the same way as in step 2.

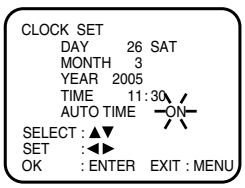



**4** Press ◀ or ▶ to select current minute, then press ▼.

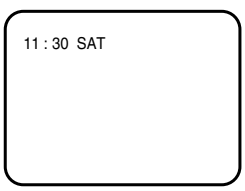
- You can change in 10-minutes step by holding down ◀ or ▶.




**5** Press ◀ or ▶ to select ON. Your unit automatically corrects the clock setting every hour once you set AUTO TIME to ON.

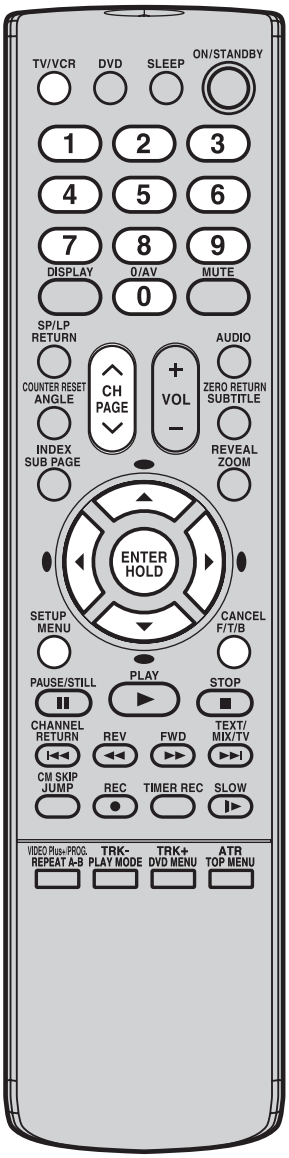



**6** Press **ENTER**.
The time and day will be displayed.



# MANUAL TUNING

**You should only need to manually tune channels on your unit if the Auto Set Up missed one station or you wish to tune.**



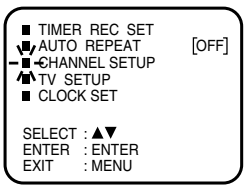

**TO SKIP A CHANNEL**

To skip unwanted channels press **CH/ PAGE** to select the channel you want to skip. Then press **CANCEL**. The channel number flashes.

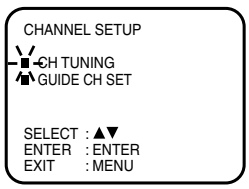
To cancel the skip setting, select the skipped channel using **Direct Channel Selection**, then press **CANCEL**.

**MANUAL TUNING**

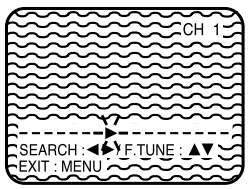
1 Press **TV/VCR** to select TV/VCR mode.
Press **MENU**.
Press ▲ or ▼ to select the CHANNEL SETUP mode, then press **ENTER**.



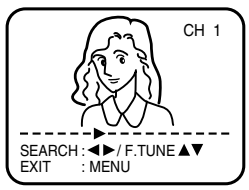

2 Press ▲ or ▼ to select the CH TUNING mode, then press **ENTER**.



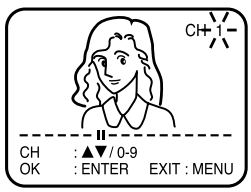

3 Press ◀ or ▶ to search the broadcast stations. Each time a station is found the search will stop. Press ◀ or ▶ to continue searching until all the stations you want are found, then press **ENTER** to store the station you have selected.




4 If you can not get a clear picture, press ▲ or ▼ until the picture becomes clear. When you have a clear crisp picture store this setting by pressing **ENTER**.

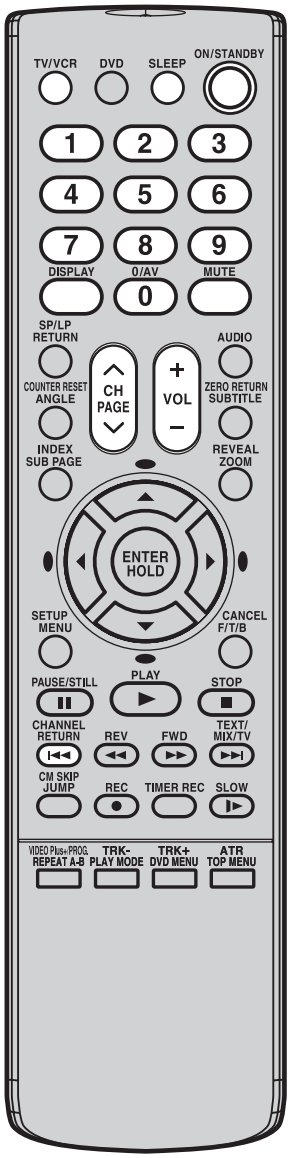



5 Press ▲ or ▼ to select the required channel number (1-80). Press **ENTER** to store the channel number.




6 The unit channels can be preset to different TV broadcast channels at anytime simply repeat steps 3-5.

7 When all required stations have been set, press **MENU** repeatedly to return to normal TV screen.



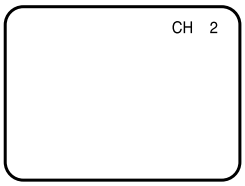

**NOTES:**

- If **SLEEP** is pressed when the unit is the REC mode, the clock will count down and the picture will shut off at the set time, but the recording continues.
- If the station being viewed stops broadcasting, the TV will shut off after 15 minutes.

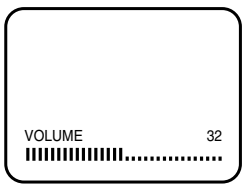
1 Press **ON/STANDBY**. Then press **TV/VCR** to select TV/VCR mode.

2 Press **Direct Channel Selection**.

1-9: Press one of keys **1-9** as required.
10-80: Press the two digits in order from left to right.

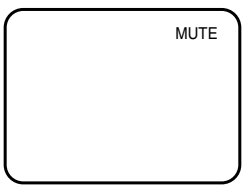



3 The VOLUME can be adjusted to a desired level by pressing **VOL +** or **–**. The VOLUME control is represented by a green bar on the screen.



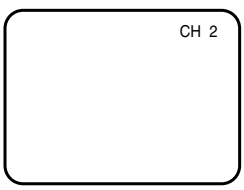

## MUTE

To cut off the sound, press this button once. The unit will be silenced and the symbol "MUTE" will appear on the screen. The muting can be released by pressing **MUTE** again or **VOL +** / **–** buttons.



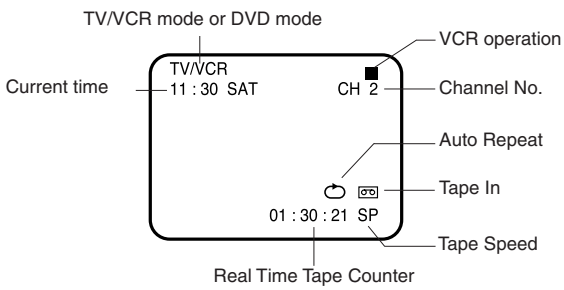

## USING CH/PAGE ∧ OR ∨ BUTTON

Press and release **CH/PAGE** ∧ or ∨.
For channels to change properly, they must be tuned into the unit memory.




## DISPLAY

Press **DISPLAY**. The current time, channel number, real time tape counter, tape speed and VCR operation will be indicated. Press **DISPLAY** again to remove the call display.

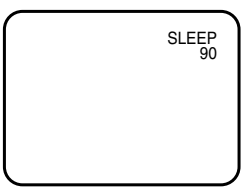



## CHANNEL RETURN

This button allows you to go back to the last channel selected by pressing **CHANNEL RETURN**. Press this button again to return to the last channel you were watching.

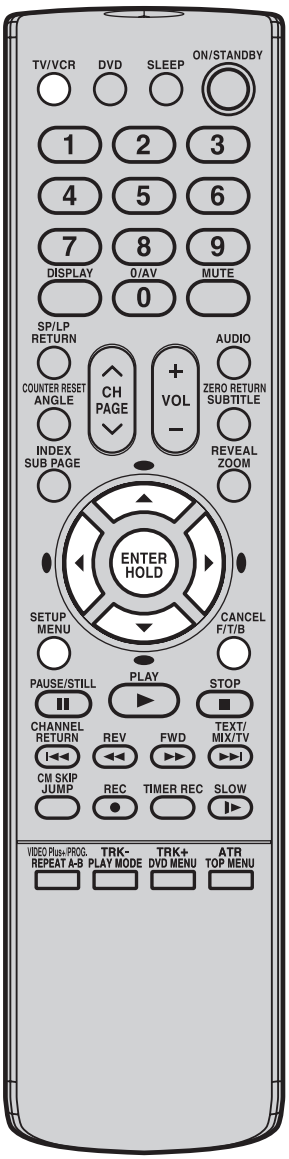
## SLEEP

To set the TV to turn off at a set time, press **SLEEP** on the remote control. The clock will count down 10 minutes each time the button is pressed in the order of 120, 110.....20, 10, 0. After the sleep time is programmed, the display will disappear and will reappear every 10 minutes. To confirm the sleep time setting, press **SLEEP** once and the remaining time will be a momentarily displayed. To cancel the sleep time, press **SLEEP** repeatedly until the display turns to 0.



# PICTURE CONTROL ADJUSTMENTS

**The picture settings have been factory adjusted under optimum signal reception. However, conditions may not be the same in your area. After tuning in the unit, allow it to warm up for a few minutes. If the picture is not to your liking, make the following adjustments using the remote control.**



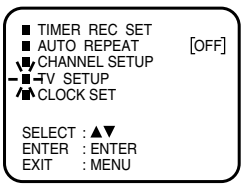

**NOTES:**

- To resume the normal picture adjustment, press **CANCEL**, while in the picture mode menu.
- The picture settings can only be adjusted by using ◀ or ▶ and **ENTER** when they are displayed on the screen.
- The On-screen display will disappear about one minute after finishing an adjustment.

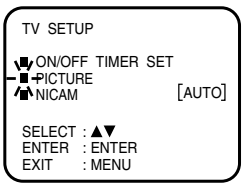
**Preparation**

Press **TV/VCR** to select TV/VCR mode.

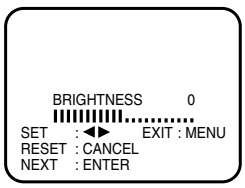
1 To adjust the picture, press **MENU**.
Press ▲ or ▼ to select the TV SETUP mode, then press **ENTER**.




2 Press ▲ or ▼ to select the PICTURE mode, then press **ENTER**.




3 Press **ENTER** until your desired PICTURE mode appears eg. BRIGHTNESS, CONTRAST, COLOUR, SHARPNESS. Then press ◀ or ▶ to adjust the level of the PICTURE.
(See the below for detail.)




4 After finishing the adjustment, press **MENU** repeatedly to return to normal TV screen.

Each time you press **ENTER** the picture adjustment Screen changes as follows.

**BRIGHTNESS**
Press **ENTER** until "BRIGHTNESS" appears on the screen, then press ◀ or ▶ to adjust the brightness. When ▶ is pressed, the darker portions of the picture become lighter.

⬇

**CONTRAST**
Press **ENTER** until "CONTRAST" appears on the screen, then press ◀ or ▶ to adjust the contrast. Pressing ▶ improves the contrast and enhances the colour. Picture looks sharper in the daytime by increasing the contrast level and sharper at night by lowering the contrast level.

⬇

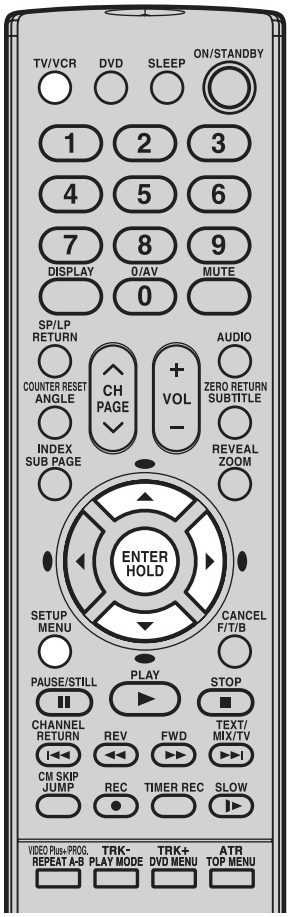
**COLOUR**
Press **ENTER** until "COLOUR" appears on the screen, then press ◀ or ▶ to adjust the intensity of the colours. This should be set to where the colours appear normal in intensity and brilliance.

⬇

**SHARPNESS**
Press **ENTER** until "SHARPNESS" appears on the screen, then press ◀ or ▶ to adjust the sharpness.
In weak reception areas, the picture may be more pleasing when the SHARPNESS is set at a lower level.

# TO SET THE ON TIMER

**This feature allows you to have the TV automatically turn "ON" at predetermined time. If you programme the ON TIMER once the timer will turn "ON" the TV daily at the same time and to the same channel.**

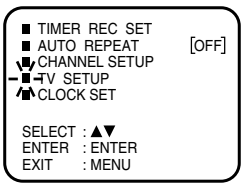



**NOTES:**

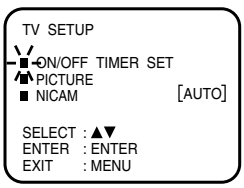
- The TV will automatically turn off approximately 1 hour later after the ON TIMER turns on the TV. If you wish to continue watching the TV, press any button to cancel the one hour automatic shut off. This shut off feature prevents the TV from playing continuously if no OFF TIMER is set.
- To cancel the ON TIMER function; To cancel ON TIMER, follow above steps 1-6, then press ▲ or ▼ to select the CANCEL position. Press **MENU** to return to the TV.
- After setting the ON TIMER, " ▮ " of the OFF TIMER will flash on and off. If you wish to set the OFF TIMER, press **ENTER** then follow the steps 3-6 on page 16.

**Preparation**
Press **TV/VCR** to select TV/VCR mode.
**Example:**
Turning on the TV to channel 3 at 7:45, MONDAY-FRIDAY.

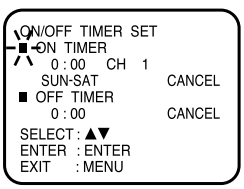
1 Press **MENU**. Select the TV SETUP mode using ▲ or ▼, then press **ENTER**.



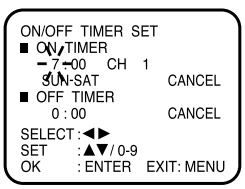

2 Press ▲ or ▼ to select the ON/OFF TIMER SET mode, then press **ENTER**.



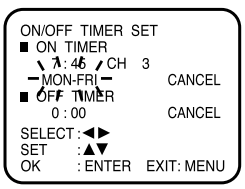

3 Press ▲ or ▼ to set the ON TIMER option, then press **ENTER**.



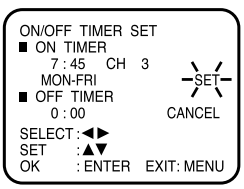

4 Press ▲ or ▼ to set the desired hour, then press ▶.




5 Set the desired minute, channel and daily or weekly timer date as in step 4, then press ▶.

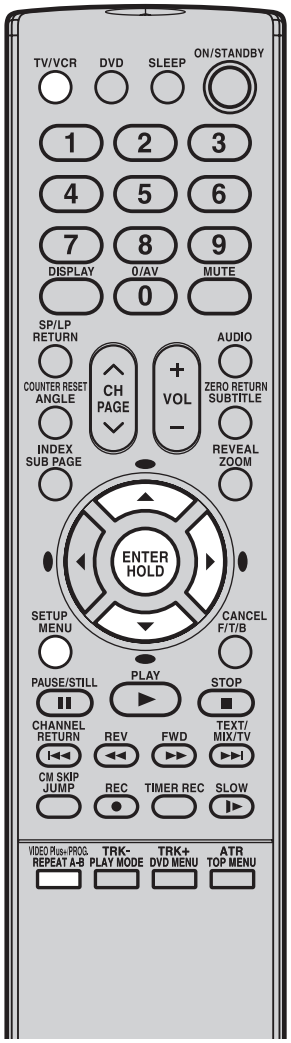



6 Press ▲ or ▼ to select the SET mode, then press **ENTER**. Press **MENU** repeatedly to return to normal TV screen.



# TO SET THE OFF TIMER

**This feature allows you to have the TV turn "OFF" automatically at a predetermined time. If you programme the OFF TIMER once, the TV will be automatically turned off at the same time daily.**

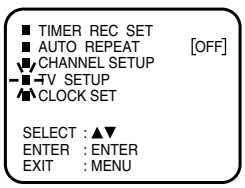



**NOTES:**

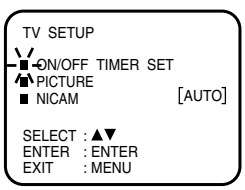
- If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.
- To cancel the OFF TIMER function:
  To cancel OFF TIMER, follow above steps 1-5, then press ▲ or ▼ to select the CANCEL position. Press **MENU** to return to the TV.
- To confirm the ON/OFF TIMER:
  Press **PROG.** three times to indicate the programmes on the screen.

**Preparation**
Press **TV/VCR** to select TV/VCR mode.
**Example:**
Turning off the TV at 8:30.

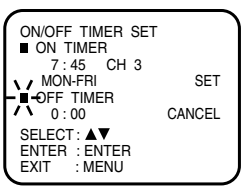
1 Press **MENU**. Select the TV SETUP mode using the ▲ or ▼ button, then press **ENTER**.



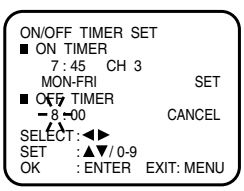

2 Press ▲ or ▼ to select the ON/OFF TIMER SET mode, then press **ENTER**.



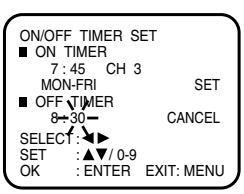

3 Press ▲ or ▼ to set the OFF TIMER option, then press **ENTER**.



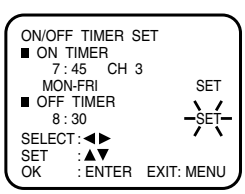

4 Press ▲ or ▼ to set the desired hour, then press ▶.




5 Press ▲ or ▼ to set the desired minute, then press ▶.




6 Press ▲ or ▼ to select the SET mode, then press **ENTER**.
Press **MENU** repeatedly to return to normal TV screen.



# LOADING AND UNLOADING THE VIDEO CASSETTE TAPE

Use only video cassette tapes marked VHS.

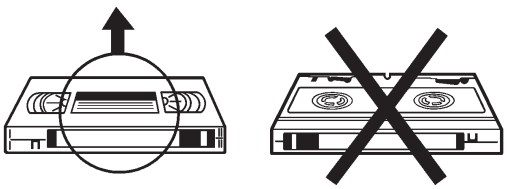
**Preparation:** Press **TV/VCR** to select TV/VCR mode.

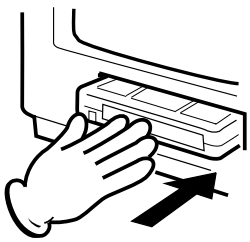
## LOADING

Push the centre of the tape until it is automatically inserted.

**AUTOMATIC POWER ON AND PLAY** (Make sure that the MAIN POWER switch is pushed in.)
When loading a cassette tape without the erase prevention tab intact, the unit will turn on and playback will start immediately.

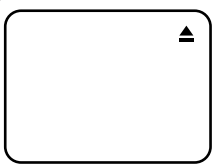
Insert the cassette with its labelled side facing you.
An inverted cassette cannot be inserted.





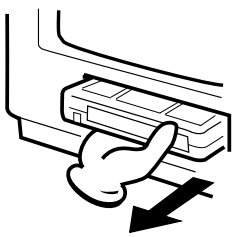
## UNLOADING

1 To unload a video cassette, press ■/⏏ (STOP/EJECT) on the unit twice. The first press will stop the tape in any mode. The second press will eject the tape.



**AUTOMATIC EJECT**
When the unit is automatically rewinding the tape and reaches its end (AUTO REWIND), the tape will be ejected automatically (See NOTE on page 18).

2 Pull the cassette out.



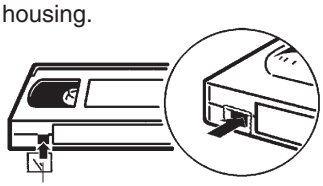
**NOTES:**
- Always eject the tape when not in use.
- The cassette can be ejected even if the Sub Power (⏻) button is OFF.

## TO PREVENT ACCIDENTAL ERASURE

After recording, break off the erase prevention tab if you do not wish to record over the tape.

## TO RECORD AGAIN

Cover the hole with adhesive tape.
Be careful the tape does not extend past the edges of the cassette housing.




## TAPE SPEED AND MAXIMUM RECORDING/PLAYBACK TIME

| | VIDEO CASSETTE TAPE | | | | | |
|---|---|---|---|---|---|---|
| TAPE SPEED | E-300 | E-240 | E-180 | E-90 | E-60 | E-30 |
| SP (Standard Play ) | 5 hours | 4 hours | 3 hours | 1-1/2 hours | 1 hour | 30 minutes |
| LP (Long Play) | 10 hours | 8 hours | 6 hours | 3 hours | 2 hours | 1 hour |

# PLAYBACK

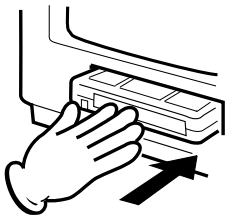
**To play a pre-recorded cassette tape.**

**NOTE:**
AUTO REWIND FEATURE:
This unit will automatically rewind and eject the tape when the tape has ended.

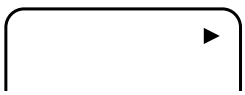
## TO START PLAYBACK

1 To turn "ON" the power of the TV/VCR, press **ON/STANDBY**.
Press **TV/VCR** to select TV/VCR mode.

2 Load a pre-recorded tape (When loading a cassette tape without the erase prevention tab, playback will start automatically).

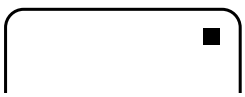


3 Press ▶ **(PLAY)**.
Playback will start.
" ▶ " will appear on the screen.



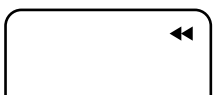
## TO STOP PLAYBACK

Press ■ **(STOP)**.
" ■ " will appear on the screen.



## TO REWIND OR FORWARD THE TAPE RAPIDLY

Press ◀◀ **(REV)** when in the STOP mode.
" ◀◀ " will appear on the screen.



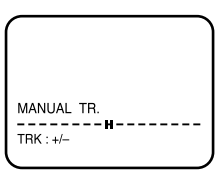
Press ▶▶ **(FWD)** when in the STOP mode.
" ▶▶ " will appear on the screen.

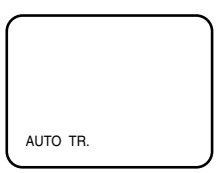
**FORWARD/REVERSE PICTURE SEARCH**
If you want to see the tape program during REV(FWD) mode, press and hold the **REV** (**FWD**) button.
The backward (forward) visual search picture will be seen on the screen. Release the button to return to the REV(FWD) mode.

## DIGITAL AUTO TRACKING ADJUSTMENTS

When a tape is played, the Digital Auto Tracking system automatically adjusts the tracking to obtain the best possible picture. If noise bars appear during playback, adjust the tracking manually as follows:

- Press **TRK +** or **–** to obtain the best possible picture.
  "MANUAL TR." will appear for 4 seconds on the screen.
  To resume automatic tracking, press **ATR**.
  "AUTO TR." will appear for 4 seconds on the screen.



**TO VISUALLY SEARCH FOR DESIRED POINTS**
When either ▶▶ **(FWD)** or ◀◀ **(REV)** is pressed in the PLAYBACK mode, the speed search picture will appear. When pressed twice the search picture will increase in speed. Speed search times depend upon the speed used (SP or LP) during recording. To rewind or fast forward a tape, press ■ **(STOP)** and then press ◀◀ **(REV)** or ▶▶ **(FWD)**.

**SPEED SEARCH TIMES**

| TAPE SPEED | | PICTURE SEARCH SPEED | |
|---|---|---|---|
| | | PRESS ONCE | PRESS TWICE |
| PAL | SP (Standard Play) | 5 X | 7 X |
| | LP (Long Play) | 7 X | 13 X |
| NTSC | SP (Standard Play) | 3 X | 5 X |

Press ◀◀ **(REV)** once or twice in the PLAYBACK mode.
Press ▶▶ **(FWD)** once or twice in the PLAYBACK mode.
To return to playback, press ▶ **(PLAY)**.

## STILL PICTURE

Press ❚❚ **(PAUSE/STILL)** in the PLAYBACK mode.
To prevent damage to the tape, STILL playback is automatically resumed to the PLAY mode after 5 minutes.
To continue the normal playback, press ▶ **(PLAY)**.

## FRAME ADVANCE

Press ❚❚ **(PAUSE/STILL)** during STILL playback.
The still picture will advance by one frame each time you press the button. Hold the button for continuous frame by frame viewing.
Press ▶ **(PLAY)** again to resume normal playback.

## SLOW MOTION PLAYBACK

Press ❚► **(SLOW)** in the PLAYBACK mode. Playback will proceed at 1/5 normal speed. You can change the Slow Motion speed by pressing the button repeatedly.
The speed of Playback will change from 1/5 to 1/30 normal speed.
Press ▶ **(PLAY)** again to resume normal playback.

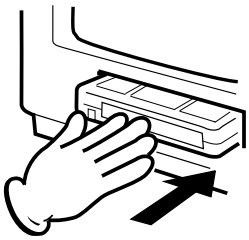
**NOTE:**
**SLOW TRACKING AND VERTICAL LOCK ADJUSTMENT**
If noise bars appear in the picture during slow motion, press **TRK +** or **–** to reduce the noise bars.
If the still picture jitters excessively, press **TRK +** or **–** to stabilize the still picture.

**NOTES:**
- The audio output is muted during SPEED SEARCH and STILL.
- A few noise bars will appear on the picture during SPEED SEARCH.
- It is normal for the picture to be noisy in the STILL mode.

## NTSC TAPE PLAYBACK

Your TV/VCR can playback Video tapes recorded in the NTSC Colour System (TV system usually used in America and Japan) on PAL 60Hz TV (Colour system used in the United Kingdom).

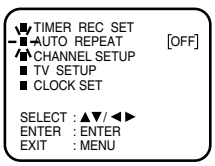
Load a NTSC recorded tape (When loading a cassette tape without an erase prevention tab, playback will start automatically).



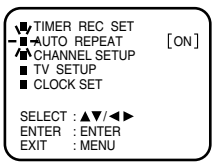
To play the NTSC tape press ▶ **(PLAY)**. Your TV/VCR will playback Video tapes recorded using NTSC Standard play, Long play (LP) and Extended play (EP). However there will be a deterioration in sound quality in the Long play and Extended play modes.

## TO WATCH A TAPE REPEATEDLY

1 Press **MENU**.
Press ▲ or ▼ to select AUTO REPEAT option.




2 Press ▶ to select the ON position.




3 Press **MENU** to return to normal TV screen. If you press ▶ **(PLAY)**, the TV/VCR will repeat playing the video tape until the repeat mode is cancelled (you can still stop the tape by pressing ■ **(STOP)**.

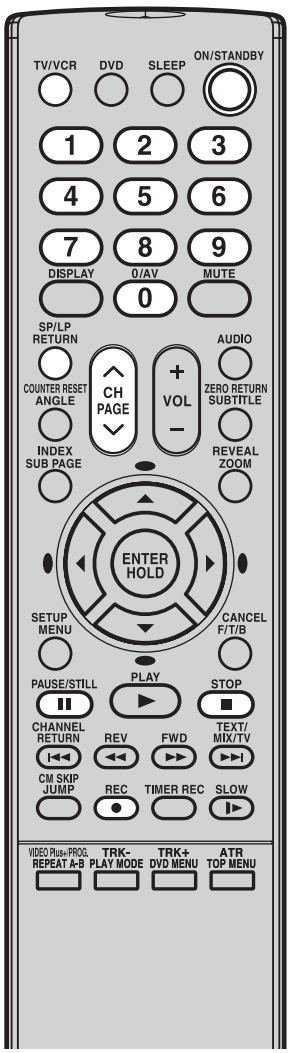
**NOTE:**
To cancel repeat mode, follow above steps 1 and 2, then press ▶ to select the OFF position. Press **MENU** to return to the TV.

## CM SKIP

Press **CM SKIP** in the PLAY mode. The TV/VCR will search forward through approximately 30 seconds of the tape (e.g. unwanted commercial time) for each press of **CM SKIP** (maximum six presses) and then resume normal playback.

For example : 1 press: 30 seconds of tape
2 press: 60 seconds of tape
3 press: 90 seconds of tape

# RECORDING A TV PROGRAMME



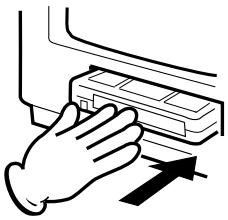

**NOTES:**

- If the power is switched off during recording by **ON/STANDBY**, the TV section shuts off and the VTR section continues to record.
- AUTO REWIND FEATURE:
  This feature is disabled during OTR and TIMER REC.
- If the tab has been removed, the tape will eject whenever ● **REC** is pressed.

## RECORDING ONE PROGRAMME WHILE WATCHING ANOTHER

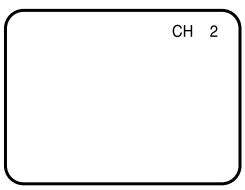
1 To turn "ON" the TV/VCR, press **ON/STANDBY**.
Press **TV/VCR** to select TV/VCR mode.

2 Load a cassette tape with the erase prevention tab intact.

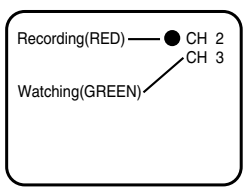


3 Press **SP/LP** to select the desired tape speed SP or LP.

4 Press **Direct channel selection** or **CH/PAGE** ∧ or ∨ to select the channel to be recorded (Example: Channel 2).




5 Press ● **REC**.
" ● " and the channel number will appear on the screen and the REC indicator will light.
While the unit is recording the one programme, another programme can be seen on this unit.
After the recording, select the TV channel you want to watch.




● **REC**

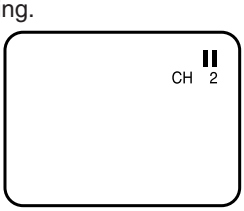
## TO STOP RECORDING

Press ■ **(STOP)** to stop recording. " ■ " will appear on the screen.

## TO STOP RECORDING TEMPORARILY

Press ❚❚ **(PAUSE/STILL)** to stop recording of unwanted material. " ❚❚ " will appear on the screen and the REC indicator will blink on and off.
Press again to continue the recording.

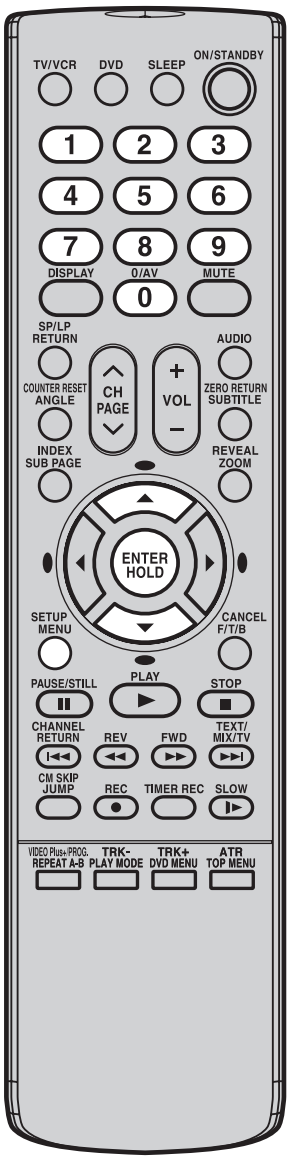
● **REC**




**NOTE:**
To prevent damage to the video head and video tape the pause function will stop the VCR operation after about 5 minutes.

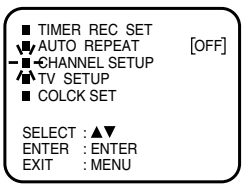
# GUIDE CH SETTING FOR VIDEO PLUS +®

**The TV stations must be stored according to the tuning guide at right, otherwise the VIDEO Plus+ feature will not work. If for any reason you did not select channels BBC1, BBC2, ITV, CH4, CH5 and Satellite in channel positions 1 through to 6 respectively, you must set each VIDEO Plus+ channel number (GUIDE CH) manually.**

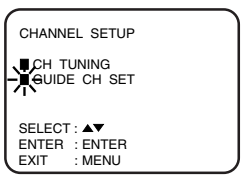



**Example:**
Satellite channel has been incorrectly stored on channel 8 of your VCR.

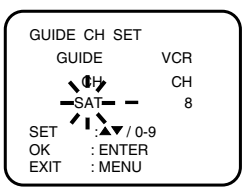
1 Press **MENU**.
Press ▲ or ▼ to select the CHANNEL SETUP mode. Then press **ENTER**.



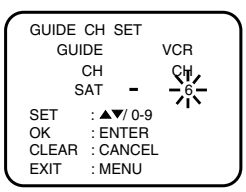

2 Press ▲ or ▼ to select the GUIDE CH SET mode. Then press **ENTER**.




3 Enter "SAT" with ▲ or ▼ button. Then press **ENTER**.




4 Enter "6" with ▲ / ▼ or **number buttons (0-9)**. Then press **ENTER**.
If you have connected your satellite using the scart socket, you must select "AV" for the VCR CH number.




5 For other Codes, repeat steps **3** and **4**.

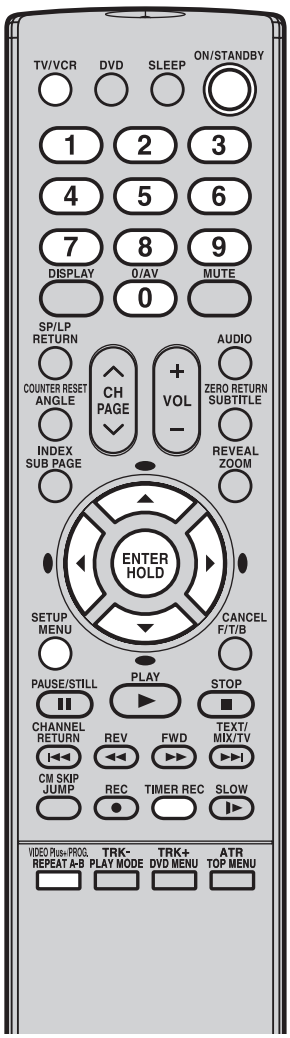
6 Press **MENU** repeatedly until the TV picture appears.

**GUIDE CHANNEL TABLE**

| TV STATION | GUIDE CH |
|---|---|
| BBC1 | 1 |
| BBC2 | 2 |
| ITV | 3 |
| CH4 | 4 |
| CH5 | 5 |
| Satellite | 6 |

# VIDEO PLUS+ TIMER RECORDINGS

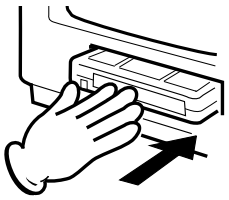
Your unit is equipped with VIDEO Plus+. This "automatic" system greatly simplifies timer programming because you do not have to enter the usual information such as date, channel, start and end times. By keying in the PlusCode for the TV programme you wish to record (listed in most TV guides) all the relevant information is set for you. VIDEO Plus+ recordings allow you to easily program your unit so that it will record at preset times. The built in timer allows unattended recording of up to 8 programmes within 1 month.



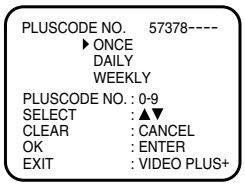

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

1 To turn "ON" the unit, press **ON/STANDBY**.
Press **TV/VCR** to select TV/VCR mode.

2 Load a cassette tape with the erase prevention tab intact.



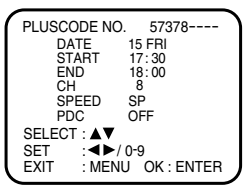
3 Press **VIDEO Plus+**.
The VIDEO Plus+ screen will appear on the TV screen.
Enter the PlusCode for the TV programme you wish to record using the **number buttons (0-9)**.




Press ▲ or ▼ to select Once, Daily or Weekly.

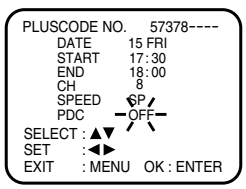
| | |
|---|---|
| Single programme | Once |
| Everyday | Daily |
| Same day every week | Weekly |

4 Press **ENTER**. If an incorrect number is entered the word ERROR will be displayed and you will have to re-enter the correct number. The VIDEO Plus+ screen on the TV will show the date, start and end times for your recording. If you want to change the setting,

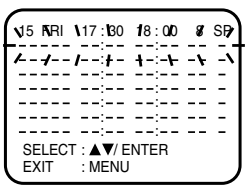



press ▲ or ▼ to select the item and press ◀ or ▶ to change to the desired setting.

5 Press ▼ to select the SPEED.
Press ◀ or ▶ to select either standard (SP) or Long (LP) play.
Press ▼ to confirm the speed.
Press ◀ or ▶ to select PDC ON or OFF (please see the explanation of PDC at the step 5 of page 23).

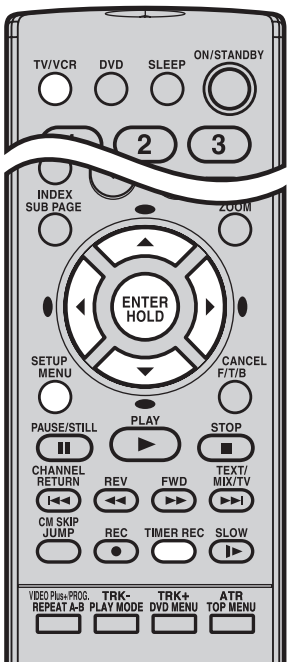



6 When you have finished setting your recording press **ENTER** to complete your programming. You can confirm your programming. If you wish to set further VIDEO Plus+ recordings, press **VIDEO Plus+** three times to return to the VIDEO Plus+ screen and repeat stages 3-6.
Press **MENU** twice to remove the display.




7 Press **TIMER REC** to set your timer recording. Your unit will go into timer record mode.
The TIMER REC indicator will light on the front of the unit.
If you do not put your unit into timer record mode your recording will not take place.
Your TIMER RECORDING is now set.
At the set time your unit will record your programme then go back into timer record mode.

**Timer recording can be programmed on screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programmes within 1 month.**




**NOTES:**

- If programming is performed without a tape in the unit, or with a tape without an erase prevention tab, the Timer Recording is not possible. If a tape without an erase prevention tab is in the unit, the tape will be ejected.
- To record from external equipment connected via the SCART socket (AV1) or the front AV socket (AV2), press ◀ or ▶ repeatedly until "AV1" or "AV2" appears when setting the channel in step 4.
- The VCR section cannot be used while the ◴ REC indicator is lit. If you want to use the VCR operation, press **TIMER REC** to deactivate the timer.
- If there is a power failure, the power plug is disconnected, or the MAIN POWER (ON) Switch is switched off for more than approx. 30 mins, all programmed timer recordings and clock settings will be lost. In this case, reset the clock (see page 11) and reprogram any timer recordings.
- If you want to correct the digits while setting, press ▲ until the item you want to correct flashes, then press ◀ or ▶ to correct the desired setting.

**Preparation**

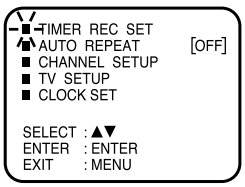
- Load a cassette tape with the erase prevention tab intact. The unit will automatically turn on.
- Make sure that the clock shows the present time correctly.

**Example:**

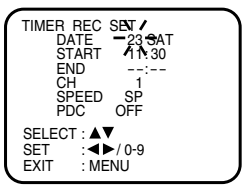
Programme a timer recording for 13:00-14:30, channel 3 (Tape speed : LP).

1 Press **TV/VCR** to select TV/VCR mode.
Press **MENU**.

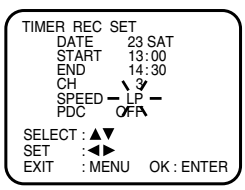
2 Check that the TIMER REC SET option is selected, then press **ENTER**.
Press ▲ or ▼ to select one of the program line, then press **ENTER**.



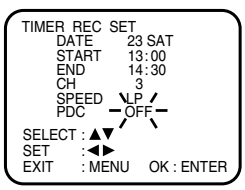

3 Press ◀ or ▶ to select the desired date or every day or every week setting (See next page.), then press ▼.




4 Set the start time, end time, channel and tape speed as in step 3.

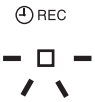



5 Press ◀ or ▶ to select PDC ON or OFF. When you have finished setting all your recordings, press **ENTER**.
To set the timer for another programme, press ▲ or ▼ to select another programme line, then press **ENTER**.
Repeat steps 3 to 5 to set the second programme.



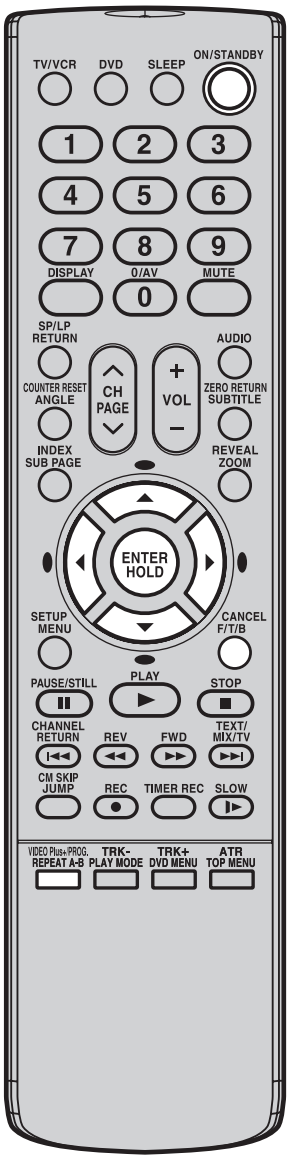

PDC stands for Programme Delivery Control system. A PDC signal is broadcast at the beginning and end of most TV programmes. This lets your unit know if a TV programme is running early or late.
PDC is default OFF on this unit. If you switch PDC ON then a recording will not start until your unit receives the PDC signal. Without PDC your recording would have started and ended as programmed time.

6 Press **TIMER REC**. The ◴ REC indicator will light. The Timer is programmed, when the programmed time is reached, the recording is automatically started.




To cancel timer recording, press the buttons again and ◴ REC indicator will go out.

# OTHER FUNCTIONS FOR TIMER RECORDING




## TO SET DAILY/WEEKLY TIMER

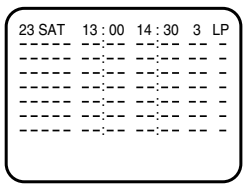
When setting the date in the step 4 on page 23, press ◀ repeatedly when the current day is displayed.
The setting changes as follows:

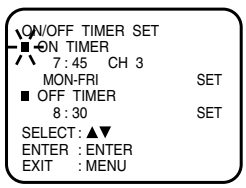
**Example**

The current day (Friday) → SUN-SAT (Sunday to Saturday)
↑ ↓
MON-SAT (Monday to Saturday)
↓
One month later minus one day — MON-FRI (Monday to Friday)
↑ ↓
WKL-WED (Weekly Wednesday) ← WKL-THU (Weekly Thursday)

## TO CONFIRM THE SETTINGS

**If the timer has been set according to stage 6 on page 23**, it is first necessary to turn on the unit pressing **ON/STANDBY**. Press **PROG.** and the timer programme list is displayed, the second press shows the ON/OFF TIMER setting screen and the third press returns to normal screen. The user must remember to turn off the unit pressing **ON/STANDBY** in order to reset the timer.

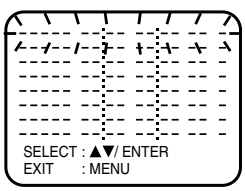



**If the timer has not been set**, **PROG.** has to be pressed twice to show the timer program list, the next press shows the ON/OFF TIMER setting screen and the fourth presses returns to normal picture.

## TO CANCEL A PROGRAM

Press ▲ or ▼ to select the TIMER REC SET option in the MENU, then press **ENTER**.
Press ▲ or ▼ to select the unnecessary program, and press **CANCEL** to cancel the program.

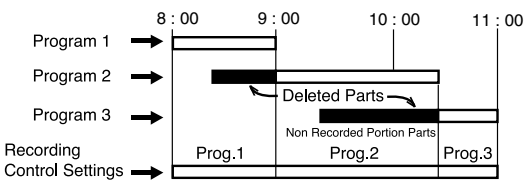



**NOTES:**

- The everyday/every week recording can be made continuously until the recording is canceled or the tape reaches the end.
- During timer recording, the automatic rewinding mechanism does not function.
- You can correct or cancel the programmed setting in program confirm mode.
- If you press an invalid button during timer recording (such as PLAY, STOP, REC etc), "RECORDING IN PROGRESS" will appear on the TV screen for approx. 4 seconds.

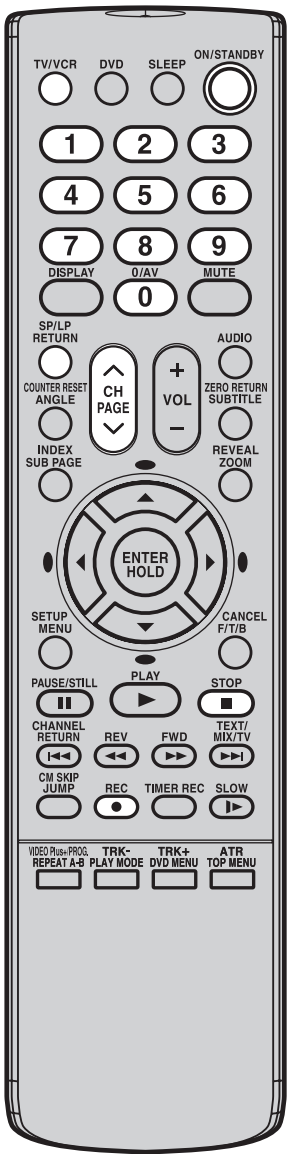
## IF THE PROGRAM OVERLAPS ANOTHER

Do not overlap programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram.



# ONE-TOUCH TIMER RECORDING (OTR)

**The One-touch Timer Recording feature provides a simple and convenient way to make a timed recording.**



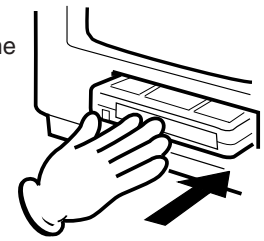

**NOTES:**

- To cancel OTR, press ■ **(STOP)**.
- The unit channel can be changed during recording.

**Example:**
One-touch Timer Recording for 30 minutes.

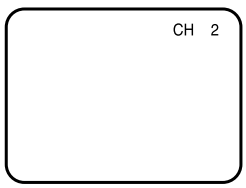
1 Press **ON/STANDBY** to turn on the unit.
Then press **TV/VCR** to select TV/VCR mode.

2 Load a video cassette with the erase prevention tab intact.

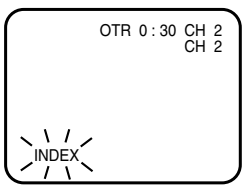


3 Press **SP/LP** to select the desired tape speed (SP or LP). SP or LP will appear on the screen.

4 Press **Direct Channel Selection** or **CH/PAGE** ∧ or ∨ to select the channel to be recorded (Example: Channel 2).




5 Press ● **REC** to begin recording. Press the buttons again to stop recording after 30 minutes. Each additional press of ● **REC** will increase recording time as shown below, up to a maximum of 5 hours. “OTR” will appear on the screen.

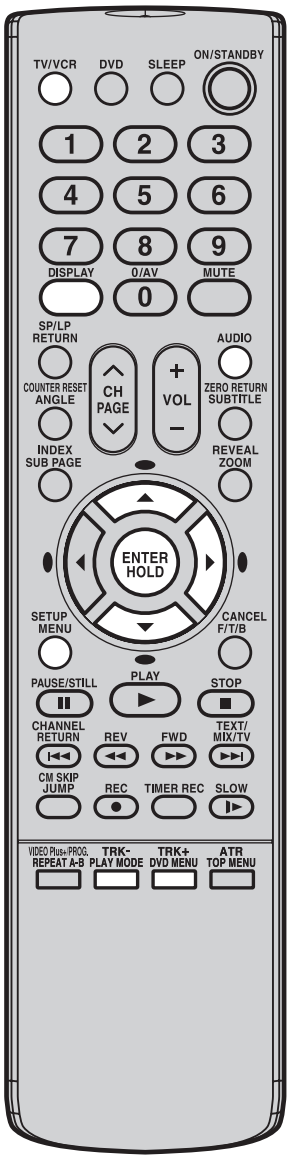



Press ● **REC** to increase the time needed for recording (See the chart below).

| Press | Recording time | Press | Recording time |
|---|---|---|---|
| once | NORMAL REC | 6 times | 3:00 |
| twice | 0:30 | 7 times | 4:00 |
| 3 times | 1:00 | 8 times | 5:00 |
| 4 times | 1:30 | 9 times | NORMAL REC |
| 5 times | 2:00 | | |

When the tape speed LP is selected, the recording time can be set up to 10 hours.

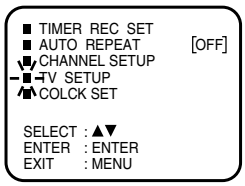
# NICAM STEREO RECORDING AND PLAYBACK



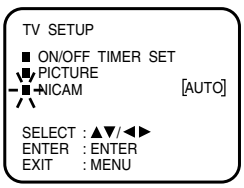

## RECORDING

**This unit is capable of recording sound in Hi-Fi system. NICAM STEREO broadcasts are recorded in its original sound system regardless of the setting. If you wish to record NICAM programmes, select NICAM "AUTO" as follows.**
**If the NICAM sound has noise, select the TV station which has noisy NICAM sound, then set NICAM to OFF.**

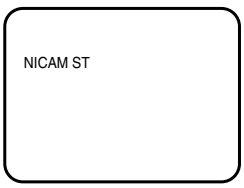
1 Press **TV/VCR** to select TV/VCR mode.
Press **MENU**. Select TV SETUP mode using the ▲ or ▼ button, then press **ENTER**.



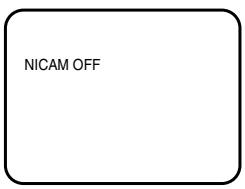

2 Press ▲ or ▼ to select NICAM. Then press ▶ to select the AUTO position. Press **MENU** repeatedly to return to normal TV screen.




**NICAM STEREO broadcast**
"NICAM ST" illuminates when a NICAM STEREO broadcast signal is received.




**NICAM OFF**
It will be displayed for the NICAM signal when the "NICAM OFF" is selected in menu screen.




## PLAYBACK

Selection of audio channels - audio channel is selected with **AUDIO** according to the chart below.

| On-screen indications (for 4 sec.) | NICAM Stereo programme | On-screen indications (for 4 sec.) | NICAM Stereo programme |
|---|---|---|---|
| HI-FI STEREO | Stereo signal output from both loudspeakers. | HI-FI L CH | Left channel signal output from both loudspeakers. |
| HI-FI R CH | Right channel signal output from both loudspeakers. | MONO | Mono |

## Hi-Fi signal indication

Press **DISPLAY**.
It will be displayed for approx. 4 seconds when playing Hi-Fi video cassette tapes.

**NOTES:**

- When you play a tape recorded in mono, the sound is always played back in mono regardless of the AUDIO select setting.
- If the sound is distorted when playing back the tape recorded by other Hi-Fi VTR, adjust with **TRK+** or **–** .

# USING THE REAL TIME TAPE COUNTER

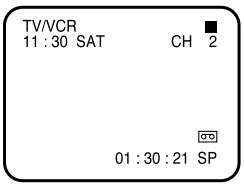
**The On-Screen Real Time Tape Counter shows the tape running time in Hours, Minutes and Seconds.**

**NOTES:**

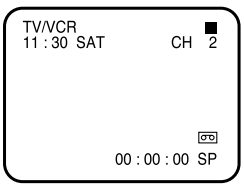
- If you rewind the tape from "00:00:00", a minus sign "–" will be displayed in front of the counter.
- When you load a tape, the counter will change to "00:00:00".
- The counter does not function on non-recorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

## TO VIEW THE COUNTER DISPLAY

1 Press **TV/VCR** to select TV/VCR mode.
Press **DISPLAY** to display the Real Time Tape counter.




2 Press **COUNTER RESET** to set the counter to "00:00:00".

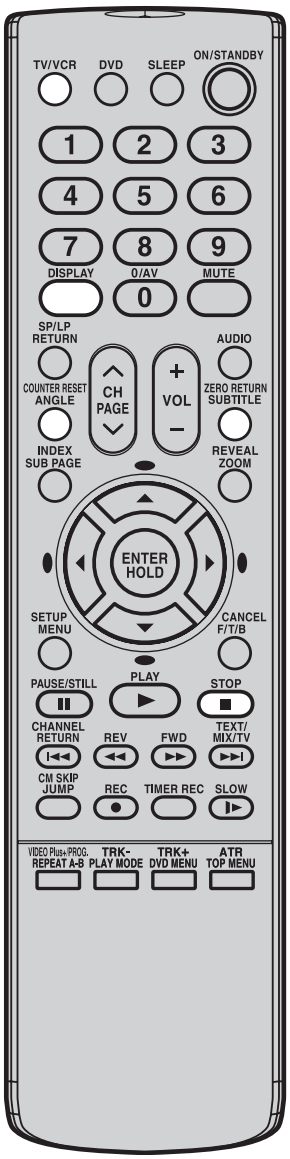



3 Press ▶ **(PLAY)** or ● **REC** to start the tape, the counter will display the passed time.

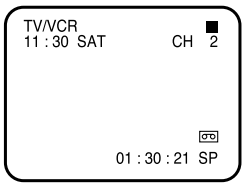
4 When you wish to make the counter disappear, press **DISPLAY** once again.

# USING ZERO RETURN

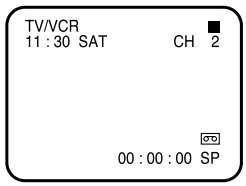
**The zero return function provides a convenient method of rapidly returning to the starting point of recording or playback. The starting point can be indexed for any location on the tape by pressing the COUNTER RESET button and ZERO RETURN button.**




1 Press **TV/VCR** to select TV/VCR mode.
Press **DISPLAY.**

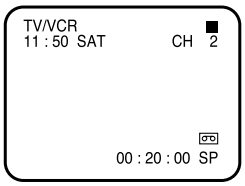



2 Before playback or recording, press **COUNTER RESET** to set the counter to “00:00:00”.

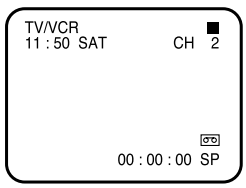



3 Begin playback or recording.

4 Press ■ **(STOP)**.

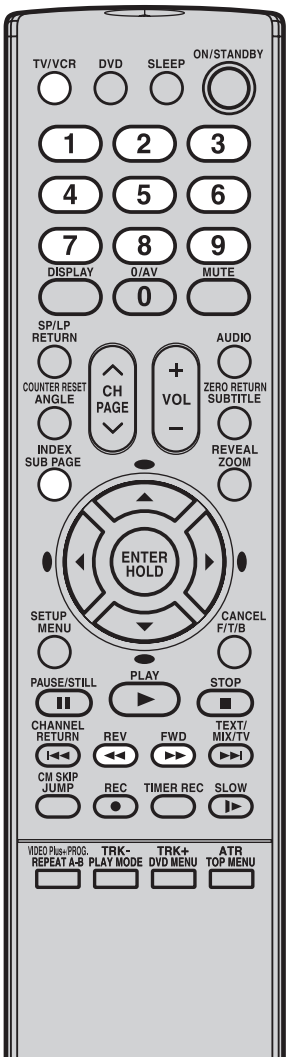



5 Press **ZERO RETURN**.
The tape will rewind and automatically stop at the “00:00:00” position.



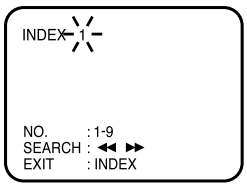
# VIDEO INDEX SEARCH SYSTEM (INDEX)

**The VIDEO INDEX SEARCH SYSTEM (INDEX) enables you to locate the beginning of any recording made on the unit. The Index Search function automatically records an INDEX mark on the tape whenever a recording is initiated. This mark can easily be located by using ▶▶ (FWD) and ◀◀ (REV).**



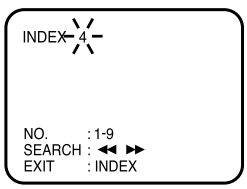

## SEARCHING FOR AN INDEX MARK

1 Press **TV/VCR** to select TV/VCR mode.
To search for an index mark, or skip over a number of index marks:
Press **INDEX** during stop or playback.

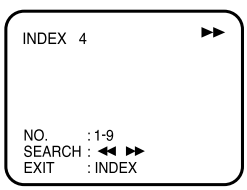



2 Select the number of INDEX marks to be skipped by using **number buttons (1-9)**.

**Example:**
When the tape has four separate recorded Programmes, select 4 to go to the beginning of the 4th programme (4th index mark).




3 Press **▶▶ (FWD)** or **◀◀ (REV)**.
The unit will skip over the selected number of INDEX marks and will start playback at the selected mark.

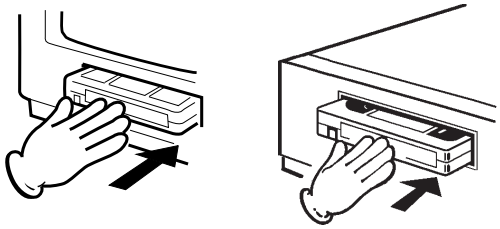



**NOTES:**
- When you recorded an INDEX mark at the very beginning of the tape, the mark may not be found.
- During INDEX search, the tape may stop and begin to play at a slightly different location.
- INDEX may not function properly with old or worn out video tapes.

# DUPLICATING A VIDEO TAPE

**If you connect the unit to another VCR or VIDEO CAMERA, you can duplicate a previously recorded tape. Make all connections before turning on the power.**

1 Load a blank cassette tape with the erase prevention tab intact into the recording unit.
Load a previously recorded tape into the playback VCR or VIDEO CAMERA.



2 Press **AV** to select the AV2 channel. AV2 will be displayed.

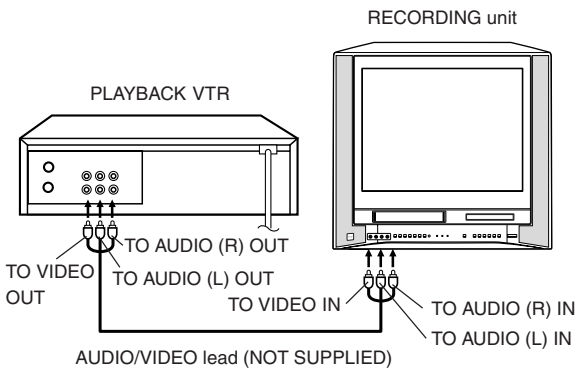
**NOTE:** You can also use the rear 21 pin SCART socket. Select "AV1" by pressing **AV**.

3 Press ● **REC** on the remote control of the unit, then press **PAUSE/STILL**.

4 Press PLAY on the playback VCR, then press PAUSE.

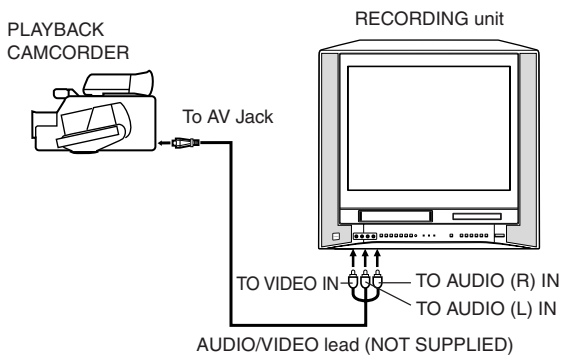
5 Release the Recording Pause and Still Playback to begin the duplicating process.

## CONNECTION TO ANOTHER VCR




## CONNECTION TO CAMCORDER

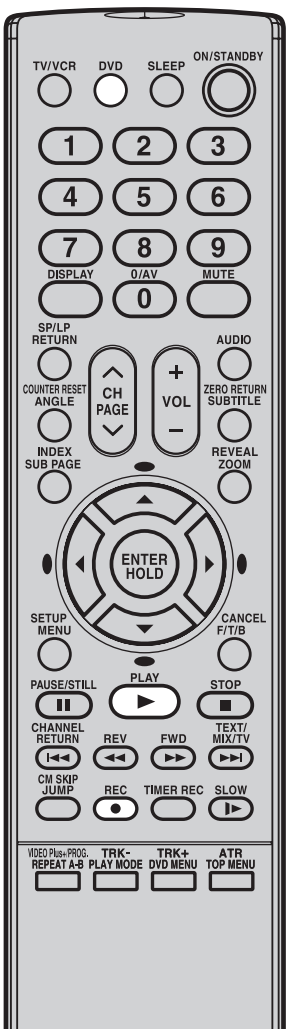
For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown below.




**NOTES:**
- It is recommended that the tape speed be set to the SP mode on the TV/VCR for best results.
- Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

# DUPLICATING A DISC MATERIAL ONTO A VIDEO TAPE

**With this unit it is theoretically possible to record from a DVD or Audio CD to a video tape.**
**If the DVD disc has a Copy-guard feature, the duplication is not possible. A symbol mark "⊙➡⊠" will appear on the screen for approx. 4 seconds. See page 34 for more information about the DVD Disc.**




**NOTES:**

- You can set the duplicating time using the OTR-function. At step 3 above press ● **REC** repeatedly until the desired duplicating time appears on the screen.(P.25)
- Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

**Preparation**

- Load a cassette tape with the erase prevention tab intact.
- Select the tape speed in the TV/VCR mode. (see P.20)
- Load a disc you wish to duplicate.

1 Press **DVD** to select the DVD mode.

2 Press ▶ **(PLAY)** to start the disc playback.

3 During disc playback, press ● **REC**.

# FASTEXT

Most broadcasters offer the fastext in addition to their standard TV programmes.
The fastext offers news, weather forecast, winning Lotto numbers, the program overview and other interesting news. The text is received page by page, as soon as you select the broadcasting station. A single page can be displayed on the screen. The pages are numbered and broadcasted one by one. Therefore you'll have to wait a certain time until the selected page is display on the screen. The page will be displayed as soon as it is broadcasted.
Certain pages can be displayed more easily by the push of one of the four coloured **FASTEXT** buttons.

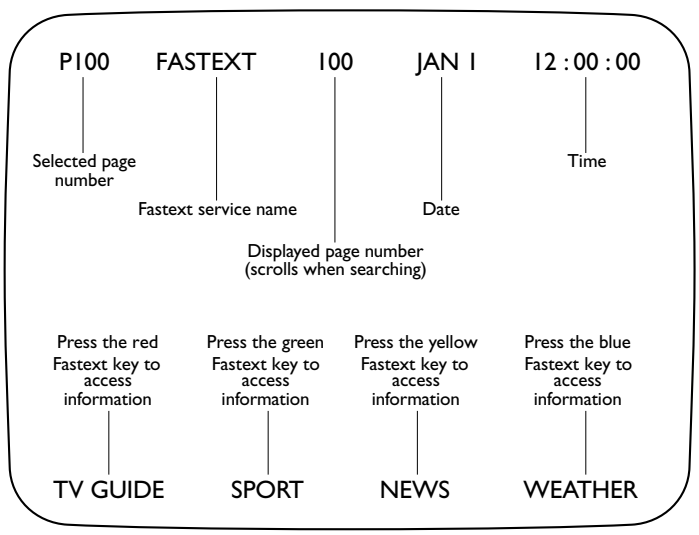
## Basic operation

**1** Select the broadcasting station, whose text you want to read. In order to do so, select the station's channel with the remote handset.

**2** Press **TEXT/MIX/TV**.
The first press **TEXT/MIX/TV** displays Fastext.
The second press **TEXT/MIX/TV** displays the TV program and the Fastext together (MIX).
The third press **TEXT/MIX/TV** turns the Fastext off and returns to the TV program.

The first operation of the fastext normally opens the page 100 with the table of contents.

Example for a fastext page:




Select the desired fastext page from the broadcasting station's table of contents.

## HOLD

Some pages hold more text, as can be displayed in only one page. The broadcasting station separates these pages into sub-pages, which are broadcasted one by one automatically. To study one sub-page thoroughly press **HOLD**. The HOLD-symbol will be displayed.
The associated sub-pages will appear automatically, when you press **HOLD** second time.

### To call a fastext page

Leaf through the pages with **PAGE ( ∧ / ∨ )** (forward or backward).
**Note:** you will not necessarily find an existing page. for every page number you enter..E.g. you have called the page no. 116, but it will not appear on your screen. This happens because the broad casting station momentarily does not offer this page. Available page numbers you will find inside the station's table of contents (toc). (most stations offer this toc on fastextpage 100).

Enter the three-digit page number with **Number buttons**.
**Example:**
You want to display page 300.
Enter: **3** then **0** and **0**.
To correct a faulty input, enter the wrong page number completely (all three digits), then enter the correct page number.

Inside the fastext mode you cannot change to another broadcasting station.
To switch to another channel, leave the fastext mode by press **TEXT/MIX/TV**.

### How to call a definite sub-page

Press **SUB PAGE**.

The screen's lower left corner will display the Fastext page number followed by **– – – –.**

To call sub-page 2 enter: **0 0 0 2** .
Your input will be displayed in the lower left corner: **0002**.
The red (◀) or green (▲) button can be used to change the sub-page number.
It may take some time until the sub-page 2 is broadcast.
The sub-page will not be displayed before it is broadcast.

To leave the sub-page mode press **SUB PAGE** again.

When you are in the sub-page mode you cannot call sub-pages from other Fastext pages. To call other Fastext pages you must leave the sub-page mode.

### Magnifying

To magnify the letters press **F/T/B**.

You can magnify either the upper or the lower half of the screen.

Each press **F/T/B** between the screen's upper and lower half and the full screen.
(F/T/B = Full / Top / Bottom)

### REVEAL

Pushing **REVEAL** will give you the hidden answers to the questions on a Quiz-page.

Not every broadcasting station offers Quiz-pages and they are not constantly offered.

# DISC

The region number of this unit is 2 or ALL. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find (2) or (ALL), disc playback will not be allowed by the player. (In this case, the unit will display a message on-screen.) Some DVDs that have no region code label may still be subject to area restrictions and therefore not playable.

### Playable Discs

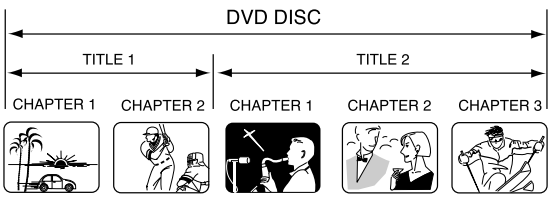
The loaded Disc (DVD, Video-CD, Audio-CD, SVCD and MP3/WMA/JPEG-CD) will be recognized automatically.
The suitable Disc-formats are: DVD, CD-R/RW and DVD-R/RW (Video format only).
Some CD-R/RW and DVD-R/RW discs may be incompatible.

Do not play DVD-ROM, DVD-Audio, CDV, CD-G or Photo CD to prevent accidental erasure of prerecorded material.

Some DVDs are copy protected and forbid dubbing on to video tape. Picture Distortion will occur. This is not a defect of this unit.

### Title

When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a “TITLE”.

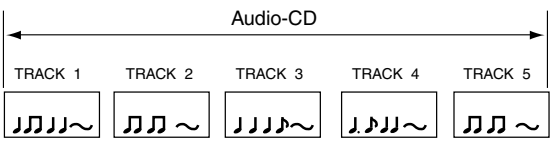



### Chapter

The titles can be subdivided into many sections.
Each section is called a “CHAPTER”.

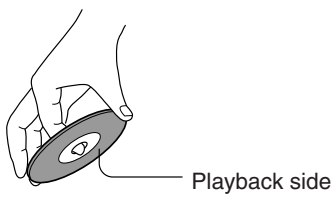
### Track

An Audio CD can contain several items.
These are assigned to tracks.




### On handling Disc

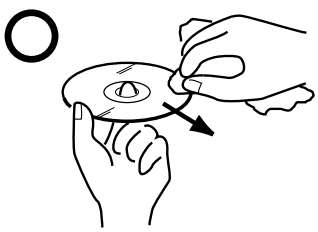
- Do not touch the playback side of the disc.
- Do not attach paper or tape to discs.




### Removing Disc from Case

Be sure to hold the edge of disc. Do not touch the surface of the disc.
Pick up the disc gently from the case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.



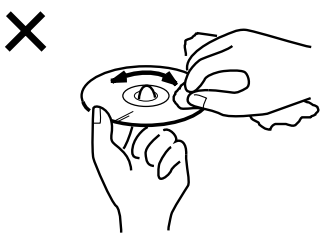
### Storing Disc

- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.

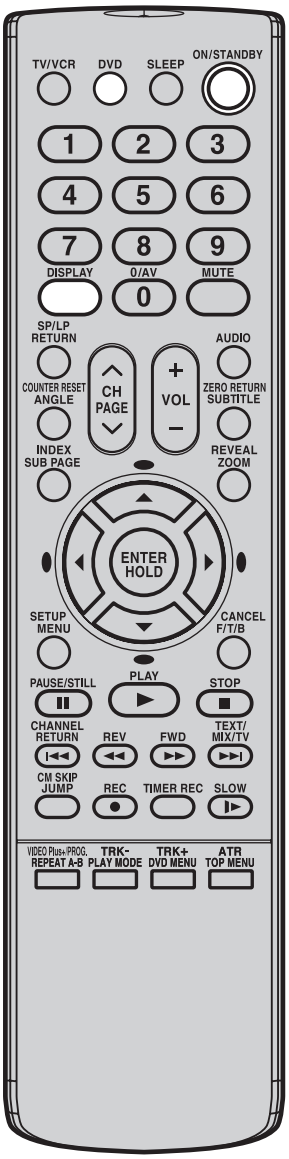
### Cleaning Disc

Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the centre outwards with a soft cloth. Always keep the disc clean.

- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.



**The following pages describe the setup/operation in DVD mode.**




**NOTE:**
**If the unit does not operate properly:** Static electricity can adversely affect the operation of this player. Sometimes this can be remedied by unplugging the unit for a short time, then reconnecting it.

## Preparation

Before DVD/CD operation, please make preparations as follows.

1 Insert the AC cord plug into a standard 230~240V 50Hz AC outlet.
- If the AC cord plug is plugged in for the first time, wait for about 5 seconds before pressing **ON/STANDBY**.

**NOTE:** When connecting to other equipment, unplug the unit from the AC outlet.

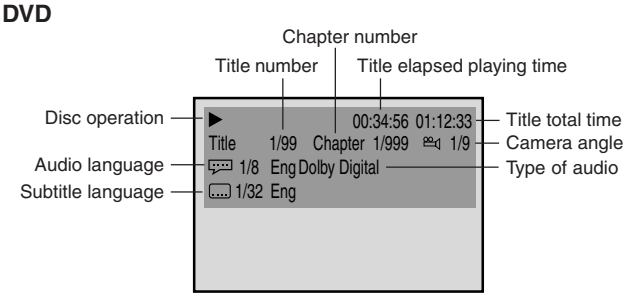
2 Press **ON/STANDBY** on the remote control to turn on the unit.
- Every time you press **ON/STANDBY**, the unit starts from TV mode.
- When using an amplifier, switch on the amplifier.

3 Press **DVD** to select DVD mode. The DVD startup screen will appear on the screen.

## Status display of disc

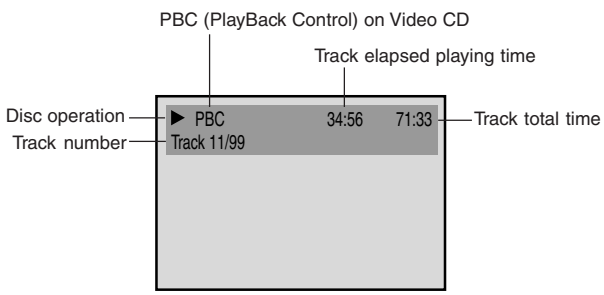
Press **DISPLAY** twice. The status display of the disc will appear on the screen.

**DVD**




To make status display disappear, press **DISPLAY** again.

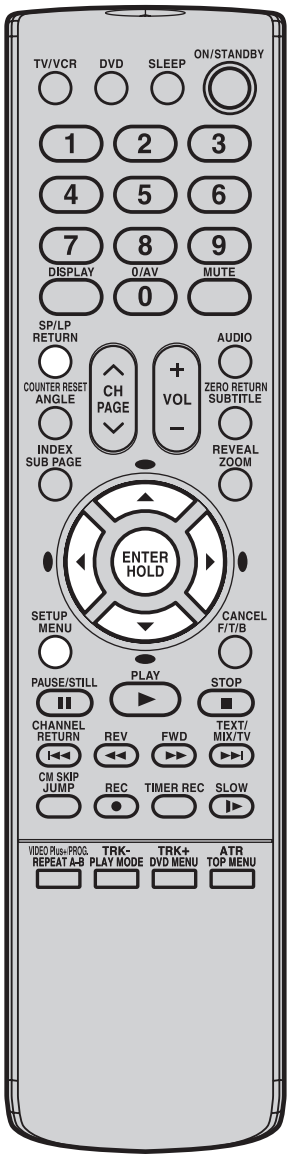
**Audio CD/Video CD**




- When you play the CD disc, the status display will appear on the screen and continue displaying.

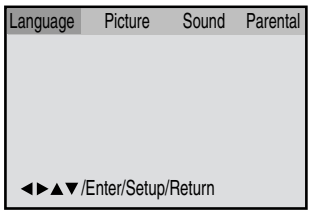
# SETTING MENU LANGUAGE

**You can select the language of the disc menu messages of DVDs.**

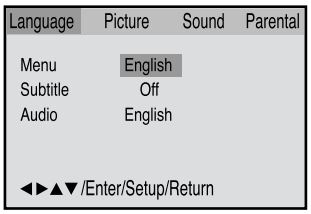



**NOTE:**
If the selected language is not recorded on the disc, the default language of the disc will be displayed.

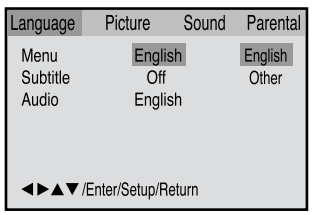
1 Press **SETUP** in the stop mode. The following on-screen display appears. Press ◀ or ▶ to select "Language", then press ▼ or **ENTER**.




2 Press ▲ or ▼ to select "Menu", then press ▶ or **ENTER**.



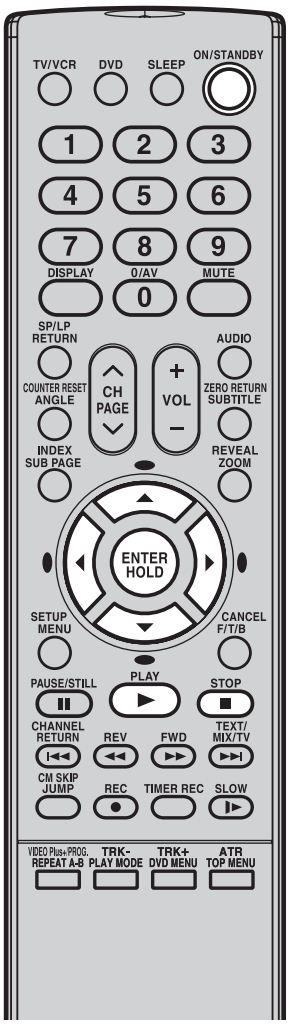

3 Press ▲ or ▼ to select desired language (e.g. English), then press **ENTER**.




**English:**
This language is the default Menu language.

**Other:**
Other languages can be selected (See the Language code list on page 55).

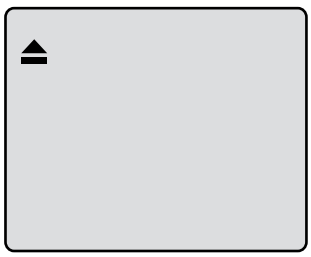
4 Press **SETUP** or **RETURN** to remove the Menu screen.



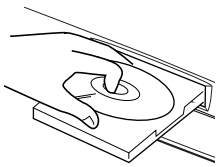

**NOTES:**

- If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. If these appear, check your disc again (see pages 34 and 50).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press ▶ **(PLAY)** or ⏏ **(OPEN/CLOSE)** on the unit, "Reading" will appear on the display for approx. 30 seconds and then "Incorrect Disc" will be displayed.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.

1 Press ⏏ **(OPEN/CLOSE)** on the unit.
The disc tray will open.

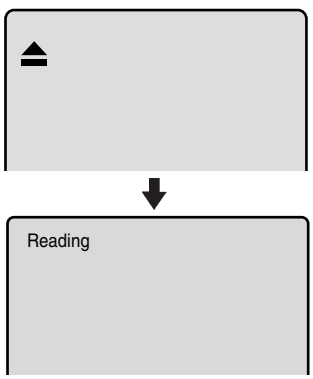



2 Place a disc onto the tray. Position it with the printed label side up, align it with the guides, and place it in its proper position.



3 Press **PLAY**.
The disc tray closes automatically.
On the TV-screen, "⏏" changes to "Reading" and then playback commences.

- A menu screen will appear on the TV screen, if the disc has a menu feature.




4 Press ▲ / ▼ or ◀ / ▶ to make a selection.

5 Press **ENTER**.
- Title is selected and play commences.

6 Press **STOP** to end playback.
- The unit memorizes the stopped point, depending on the disc. "⚑" appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point.

7 To stop the playback, press **STOP**.
Then press ⏏ **(OPEN/CLOSE)** on the unit.
The disc tray opens.
Remove the disc and press **ON/STANDBY**.
The disc tray closes automatically and unit turns off.

# SPECIAL PLAYBACK

**NOTE: There may be a slight delay between when you press the button and the function activating.**

**NOTE:**
The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

### Fast Forward Playback

Press **FWD** during normal playback.

Each press of **FWD** will increase the speed of the search ▶▶ (x 2), ▶▶▶ (x 4), ▶▶▶▶ (x 8), ▶▶▶▶▶ (x 15).
(CD: ▶▶ (x 2), ▶▶▶ (x 4), ▶▶▶▶ (x 8), ▶▶▶▶▶ (x 20))

• To resume normal playback, press **PLAY**.

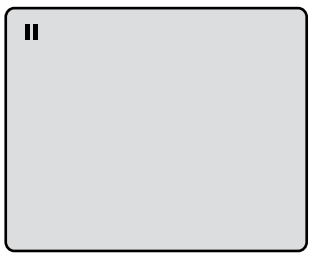
### Review Playback

Press **REV** during normal playback.
Each press of **REV** will increase the speed of the search ◀◀ (x 2), ◀◀◀ (x 4), ◀◀◀◀ (x 8), ◀◀◀◀◀ (x 15).
(CD: ◀◀ (x 2), ◀◀◀ (x 4), ◀◀◀◀ (x 8), ◀◀◀◀◀ (x 20))

• To resume normal playback, press **PLAY**.

### Still Playback

Press **PAUSE/STILL** during normal playback to pause playback.




• To resume normal playback, press **PLAY**.

### Frame Advance

Press **PAUSE/STILL** during still playback.
One frame is advanced each time you press **PAUSE/STILL**.

• To resume normal playback, press **PLAY**.

### Slow-motion Playback

Press **SLOW** during normal playback or still playback.
Each press of **SLOW** will change the speed of the slow x1/2, x1/4, x1/6, x1/7.

• To resume normal playback, press **PLAY**.
• To resume the still playback, press **PAUSE/STILL**.
• Audio CD does not work in above operation.

### Locating a chapter or track

Press ▶▶|**(SKIP)** Forward or |◀◀**(SKIP)** Reverse during playback to locate a chapter that you want to watch.
• Press ▶▶|**(SKIP)** briefly to select the next chapter/track.
• Press |◀◀**(SKIP)** briefly to return to the beginning of the current chapter/track.
• Press |◀◀**(SKIP)** twice in quick succession to select the previous chapter/track.

**This player can play back the MP3/WMA/JPEG-data which has been recorded on CD-R or CD-RW. To produce the MP3/WMA/JPEG-data, you need a Windows-PC with CD-R/RW drive and a MP3/WMA/JPEG-encoding Software (not supplied).**
**The Apple-HFS-System cannot be played.**

## MP3/WMA/JPEG CD information

**Limitations on MP3/WMA/JPEG CD playback**

- MP3/WMA/JPEG CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, “mp3”, “wma”, “jpg”.
- The directory and file names of the MP3/WMA/JPEG CD must be correspond to the ISO standardized files.
- This unit can read 200 files per disc. If one directory has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- The unit is able to recognize up to a maximum of 50 directories per disc.
- MP3/WMA/JPEG CDs cannot be used for playback for the purpose of recording.
- If the CD has both audio tracks and MP3/WMA/JPEG files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3/WMA/JPEG files depending on its structure.
- Music recorded by “Joliet Recording Specification” can be played back, the file name is displayed (within 16 letters) on the screen Long file names will be condensed.
- The music files recorded by “Hierarchical File System” (HFS) cannot be played.

**Limitations on display**

- The maximum number for display is 16 letters. Available letters for display are the following: capital or small alphabets of A through Z, numbers of 0 through 9, and _ (under score).
- Other letters than those above are replaced in hyphen.

**Notes on MP3/WMA/JPEG files**

To play back MP3/WMA/JPEG CD in the recorded order,

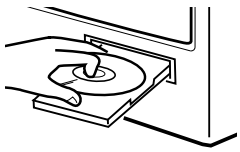
1. Use MP3/WMA/JPEG software that records data alphabetically or numerically.
2. Name each file including two-digit or three-digit number (e.g. “01” “02” or “001” “002”).
3. Refrain from making too many sub-folders.

**CAUTION:**

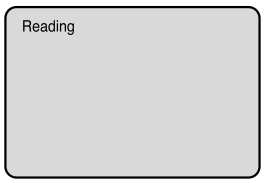
- Some MP3/WMA/JPEG CDs cannot be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3/WMA/JPEG files can not be played back.

## MP3/WMA CD playback

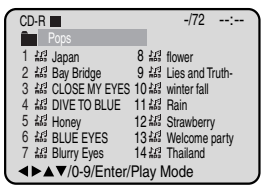
**1** Press ⏏ **(OPEN/CLOSE)** on the unit. The disc tray will open.
Place a disc on which MP3 or WMA files have been recorded onto the tray.



**2** Press ⏏ **(OPEN/CLOSE)** or ▶ **(PLAY)**. The disc tray closes automatically. On the TV-screen, “Reading” will appear. Reading will take as much time as the number of file.

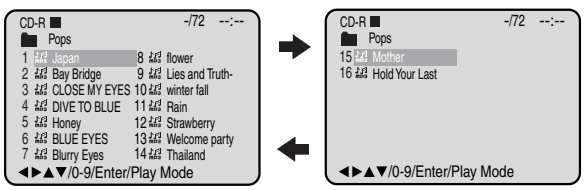



**3** A file menu screen will appear on the TV screen.
Press ◀ or ▶ to select folder.




**4** Press ▲ / ▼ or ◀ / ▶ or **number buttons (0-9)** to select the desired file.

- In case the folder includes more than 15 files, press ◀ or ▶ to display next file list.




- When ▶ **(PLAY)** has been pressed after displaying the file menu, or when the disc tray has been closed after pressing ▶ **(PLAY)** in step 2, playback begins automatically starting from the first file. In this case, if the first file is an MP3/WMA file, only MP3/WMA files are played back in order. If the first file is a JPEG file, the first JPEG file is played back.

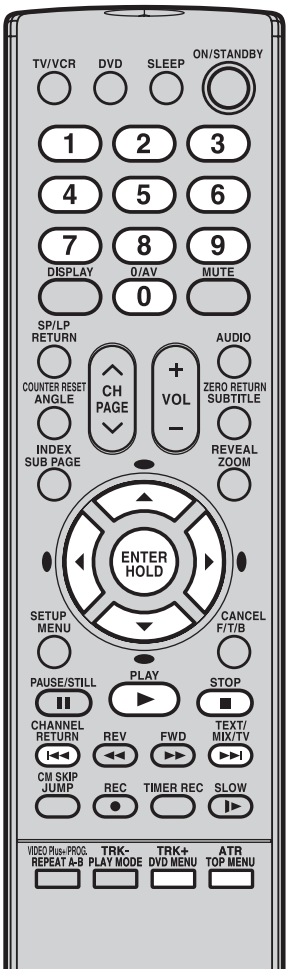
**5** Press **ENTER**.
The selected file starts playing back.

**6** Press ■ **(STOP)** to end playback.

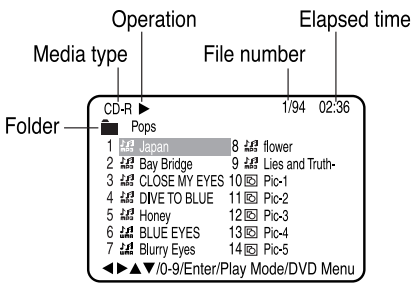
- The unit records the stopped point. “⚑” appears on the screen. Press ▶ **(PLAY)** to resume playback (from the scene point).
- If you press ■ **(STOP)** again or unload the disc, the unit will clear the stopped point.

**NOTES:**

- During MP3/WMA/JPEG-Playback, you cannot use SEARCH, A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3/WMA/JPEG CD Playback (see pages 44 and 45).
- In the case of a CD containing a mixture of MP3, WMA and JPEG files, the files are played back by selecting them from the file menu.




### About file menu




: Indicates MP3 file

: Indicates WMA file

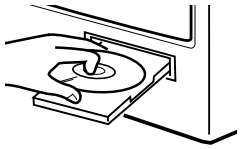
: Indicates JPEG file

**NOTES:**

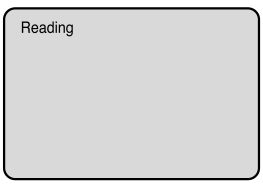
- The picture menu is displayed when the FUJICOLOR CD or the KODAK Picture CD are played. To display the file menu press **TOP MENU**.
- MP3 file on the KODAK Picture CD is not recognized on this unit.

## JPEG CD playback

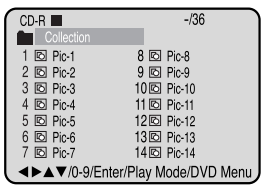
1 Press ⏏ **(OPEN/CLOSE)** on the unit. The disc tray will open.
Place a disc on which JPEG files have been recorded onto the tray.



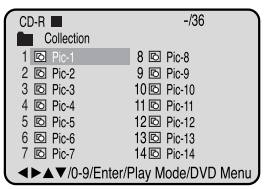
2 Press ⏏ **(OPEN/CLOSE)** or ▶ **(PLAY)**. The disc tray closes automatically. On the TV-screen, "Reading" will appear. Reading will take as much time as the number of file.



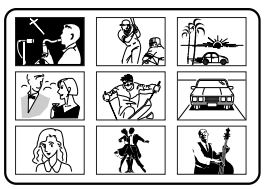

3 A file menu screen will appear on the TV screen.
Press ◀ or ▶ to select folder.




4 Press ▲ / ▼ or ◀ / ▶ or **number buttons (0-9)** to select the desired file.




To display a picture menu, press **DVD MENU**. (To return to a file menu, press **TOP MENU**.)
Press ▲ / ▼ or ◀ / ▶ to select the desired file.



- To display next list, press ▶▶| / |◀◀ **(SKIP)**.
- When ▶ **(PLAY)** has been pressed after displaying the file menu, or when the disc tray has been closed after pressing ▶ **(PLAY)** in step 2, playback begins automatically starting from the first file. In this case, if the first file is a JPEG file, the first JPEG file is played back. If the first file is an MP3/WMA file, only MP3/WMA files are played back in order.

5 Press **ENTER**.
The selected picture appears on the TV screen.

6 Press ■ **(STOP)** to end playback.
The file menu appears on the TV screen.
If you want to watch the other file, repeat steps 4-5.

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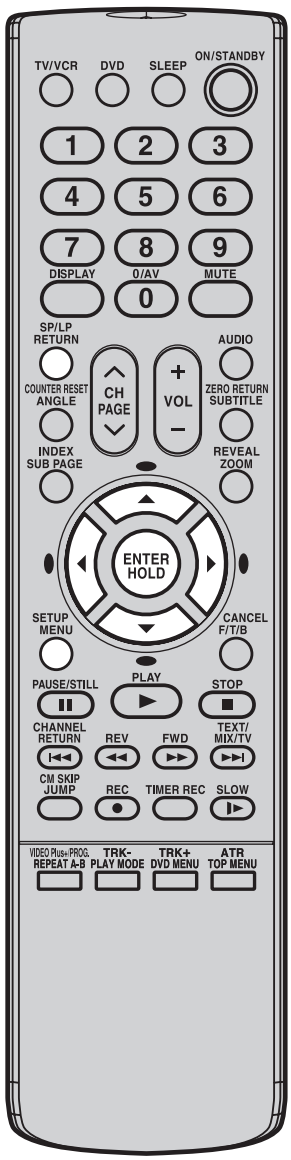
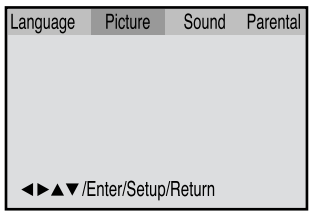


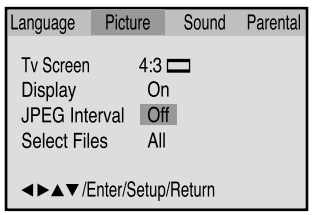

## Setting the JPEG Interval

You can continuously play back all JPEG files automatically.

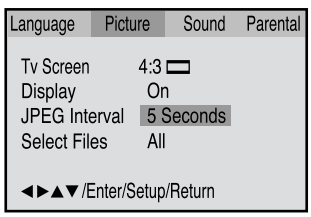
1 Press **SETUP** in the stop mode.
Press ◀ or ▶ to select "Picture", then press **ENTER**.




2 Press ▲ or ▼ to select "JPEG Interval".




3 Press **ENTER** or ◀ or ▶ to select your desired time.




**Off:**
Plays back one file at a time.

**5 Seconds:**
Plays back images in the form of a slide show at 5 second intervals.

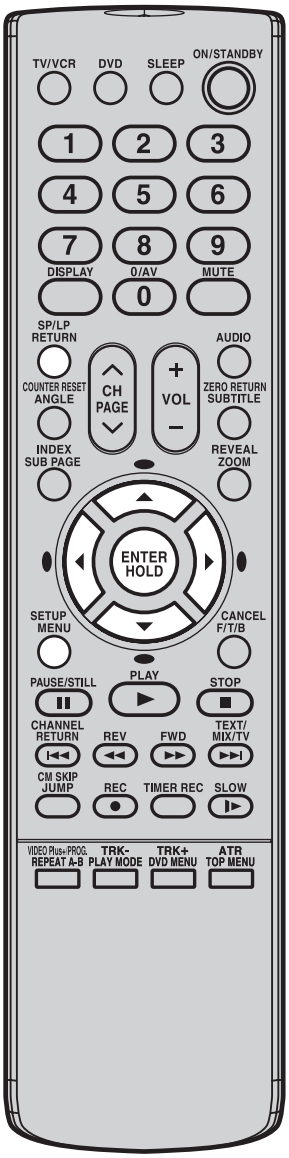
**10 Seconds:**
Plays back images in the form of a slide show at 10 second intervals.

**15 Seconds:**
Plays back images in the form of a slide show in 15 second intervals.

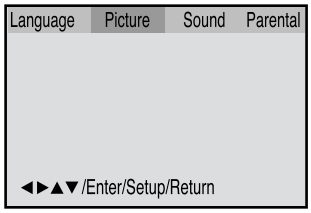
4 To make SETUP screen disappear, press **SETUP** or **RETURN**.

# SETTING THE SELECT FILES

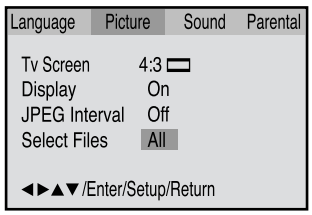
**When playing back a CD containing a mixture of MP3, WMA and JPEG files, only MP3/WMA or JPEG files can be displayed on the file menu.**




1 Press **SETUP** in the stop mode. Press ◀ / ▶ to select “Picture”, then press **ENTER**.




2 Press ▲ or ▼ to select “Select Files”.

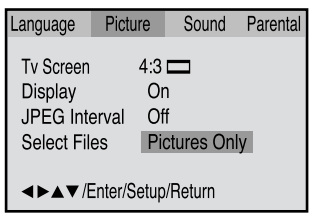



3 Press **ENTER** or ◀ / ▶ to select your desired file type.

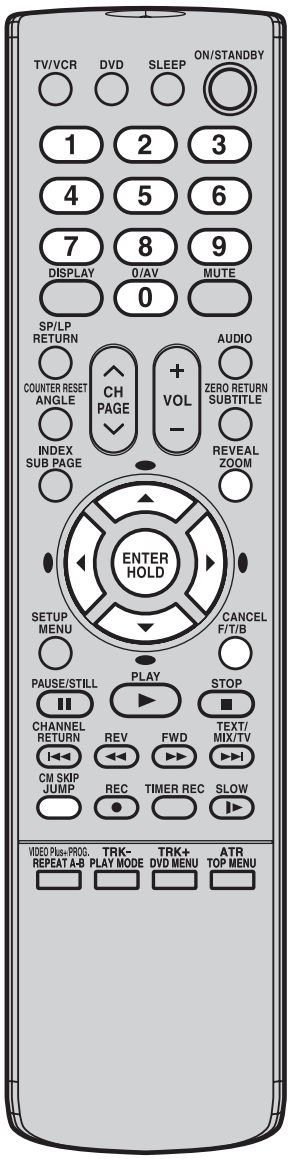
**All:**
Displays all files.

**Music Only:**
Displays only MP3/WMA files.

**Pictures Only:**
Displays only JPEG files.




4 To make SETUP screen disappear, press **SETUP** or **RETURN**.



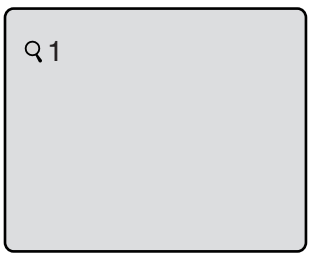

**NOTES:**

- You can select the Pause, Slow or Search playback in the zoom mode.
- Some discs may not respond to zoom feature.

## Zooming

**This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.**

1 Press **ZOOM** during playback.
The centre part of the image will be zoomed in. Each press of **ZOOM** will change the ZOOM 🔍1 (Min.), 🔍2 (Medium) and 🔍3 (Max.).



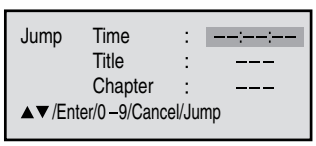

2 Press ▲ / ▼ or ◀ / ▶ to view a different part of the frame. You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode press **ZOOM** repeatedly to return to a 1:1 view (🔍 Off).

## Locating Desired Scene

**Use the title, chapter and time recorded on the disc to locate the desired point to play back.**

1 Press **JUMP** during playback.




2 Press ▲ / ▼ to select the “Time”, “Title” or “Chapter”.

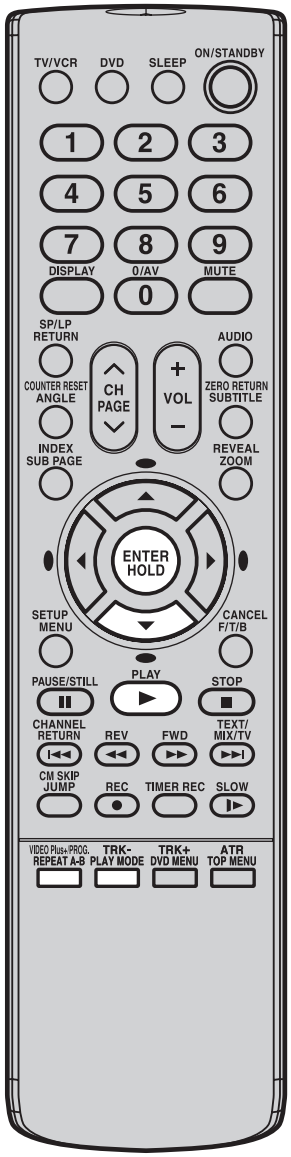
3 Press **number buttons (0-9)** to input the number.

- If you input a wrong number, press **CANCEL**.
- Refer to the package supplied with the disc to check the numbers.

4 Press **ENTER**.

- Playback starts.
- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

# REPEAT PLAYBACK




**NOTES:**

- Some discs may not work with the repeat operation.
- In A-B repeat mode, subtitles near point A or B may not appear.
- During the A-B Repeat Playback the ANGLE feature will not operate.
- You may not be able to set A-B Repeat, depending on the scenes of the DVD.
- A-B Repeat Playback does not work when Repeat Playback is activated.

### Title, Chapter, Track Playback

1 Press **PLAY MODE** during playback or stop mode.

**DVD**

Repeat : Off
◄►/Enter/Play Mode

**VCD/CD**

Play Mode : Off
Repeat : Off
◄►▲▼/Enter/Play Mode

2 Press **ENTER** once or twice to select “Chapter” or “Title”.
In case of CD, at first press ▼ to select “Repeat” and then press **ENTER** once or twice to select “Track” or “All”.

**DVD**

Repeat : Chapter
◄►/Enter/Play Mode

**VCD/CD**

Play Mode : Off
Repeat : All
◄►▲▼/Enter/Play Mode

3 Press **PLAY MODE** again to make the screen disappear.

- Press **PLAY** to start Repeat playback.
- To resume normal playback, select Repeat Off.

### A-B Repeat Playback

**A-B repeat playback allows you to repeat material between two selected points.**

1 Press **REPEAT A-B** during playback.
The start point is selected.

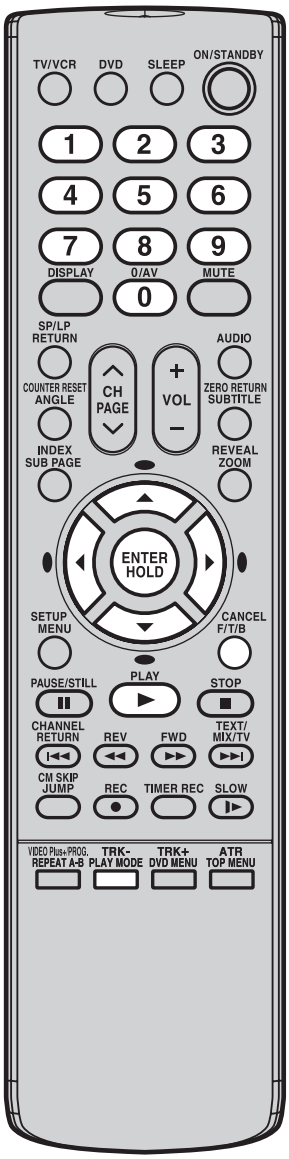
A–

2 Press **REPEAT A-B** again.
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.

A–B

To resume normal playback press **REPEAT A-B** again.
“Off” appears on the screen.

# PROGRAM PLAYBACK/RANDOM PLAYBACK (VCD/CD)



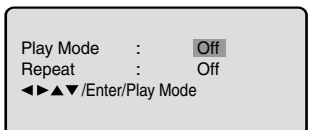

**NOTES:**

- To cancel program play, select “Clear” at step **4** and press **ENTER**.
- The program is cancelled when you open the disc tray or turn the power off.
- Random playback can not be combined with Repeat playback.

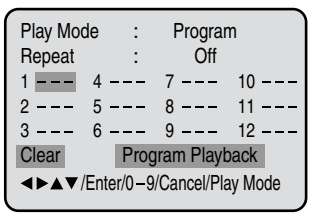
## Program playback

**You can arrange the order of tracks on the disc.**

1 Press **PLAY MODE** in the stop mode.

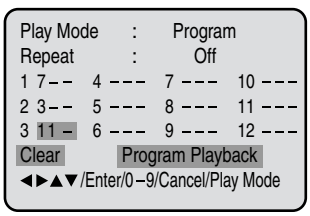



2 Press **ENTER** repeatedly until the program table shown at right appears.

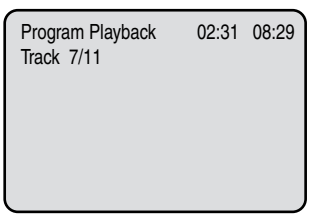



3 Use **number buttons (0-9)** to enter the track’s number you want to program.
**Example:** In case you wish to program in order of 7, 3, 11:
Enter as **7** ▼, **3** ▼, **11**.

If you input a wrong number, press **CANCEL**.

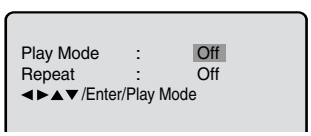



4 Press ▲ / ▼ or ◄ / ► to select “Program Playback” and press **ENTER**. “Program Playback” will appear on the screen. The program you selected will begin to playback in the order set.
To return to normal playback, select “Play Mode: Off” at step **2** above.

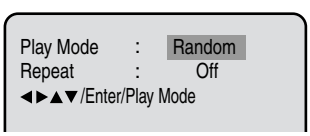



## Random playback

1 Press **PLAY MODE** during playback or stop mode.



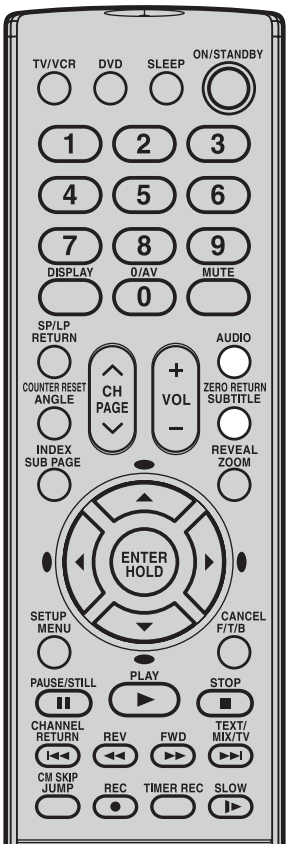

2 Press ◄ / ► or **ENTER** to select “Random”.




3 Press **PLAY**.
“Random Play” will appear on the screen and Random Playback will start.

- During playback mode, you need to press “PLAY MODE” instead of “PLAY”.

# CHANGING SOUNDTRACK LANGUAGE/SUBTITLES



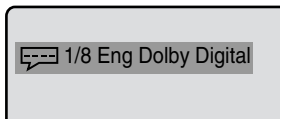

**NOTES:**

- If the desired language is not heard after pressing **AUDIO** several times, the language is not recorded on the disc.
- Changing soundtrack language is cancelled when you open the disc tray. The initial default language or available language will be heard if the disc is played back again.
- Changing subtitle language is cancelled when you open the disc tray.
- Some functions may not work on some DVDs. You may not be able to turn subtitles on or off or change subtitles. While playing the DVD, the subtitle may change when:
  - you open or close the disc tray
  - you change the title.
- In some cases, the subtitle language is not changed to the selected one immediately.

## Changing soundtrack language

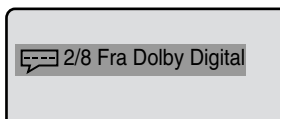
**You can select the language when you play a multilingual disc.**

1 Press **AUDIO** during playback.




The current soundtrack language will appear.

2 Press **AUDIO** repeatedly until the desired language is selected.




The on-screen display will disappear after a few seconds.

### In case of video CD playback

Audio type changes as follows each time you press **AUDIO**.

## Subtitles

### Turning the Subtitles On and Off

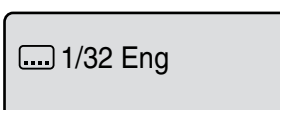
**When playing back a disc recorded with subtitles, you can turn the subtitles on or off.**

Press **SUBTITLE** during playback until “Off” appears.

### Changing the subtitle language

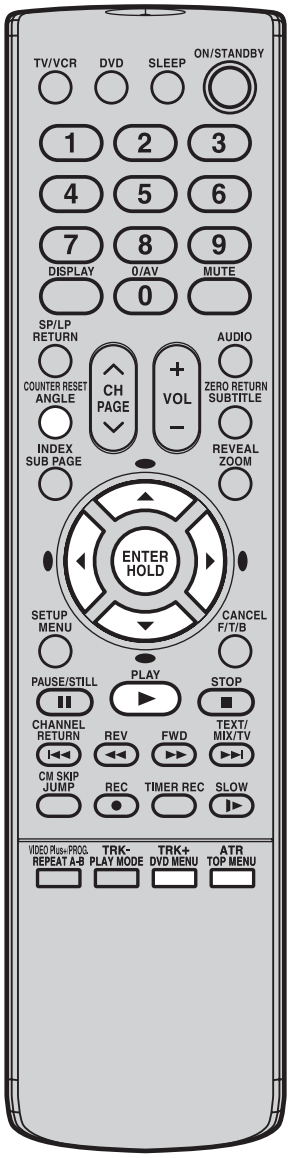
**You can select the language when playing back a disc recorded with multi-lingual subtitles.**

1 Press **SUBTITLE** repeatedly during playback until your desired language appears.




2 The on-screen display will disappear after a few seconds.

# CHANGING ANGLES/TITLE SELECTION/DVD MENU




**NOTES:**

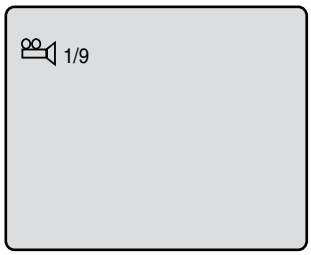
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.
- Depending on the DVD, you may not be able to select the title. Depending on the DVD, a “title menu” may simply be called a “menu” or “title” in the instructions supplied with the disc.
- Depending on the DVD, you may not be able to resume playback from the scene point when you pressed **DVD MENU** again.

## Changing Angles

**When playing back a disc recorded with multi-angle facility, you can change the view angle.**

1 Press **ANGLE** during playback.

The current angle will appear.




2 Press **ANGLE** repeatedly until the desired angle is selected.

## Title Selection

**Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.**

1 Press **TOP MENU** during playback.
Title menu appears on the screen.

2 Press ▲ / ▼ or ◀ / ▶ to select the desired title.

3 Press **ENTER** or **PLAY**.
The playback of the selected title will start.

## DVD Menu

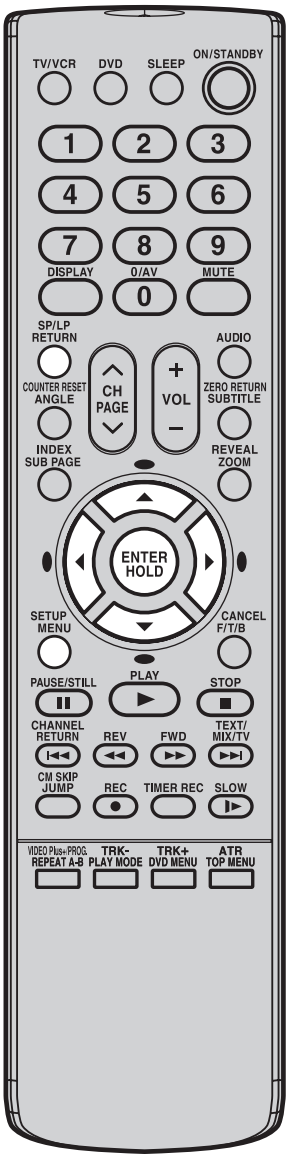
**Some DVDs allow you to select the disc contents using the menu.**
**When you play back these DVDs, you can select the subtitle language and sound-track language,etc. using the DVD menu.**

1 Press **DVD MENU** during playback.
The DVD menu appears on the screen.

- Press **DVD MENU** again to resume playback at the scene when you pressed **DVD MENU**.

2 Press ▲ / ▼ or ◀ / ▶ to select the desired item.

3 Press **ENTER**.
The menu continues to another screen. Repeat steps **2** and **3** to set additional items if any.



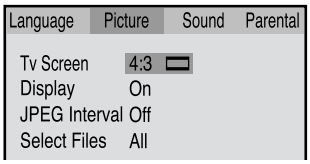

**NOTE:**
It is not always possible for the DVD disc to display the picture as per your preferred picture setting - for example, if you select "4:3 Panscan", the disc may not offer this option. In this case the picture would display in whichever format the disc is capable of playing back.

## Setting the aspect ratio of TV screen

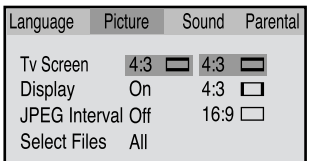
**You can select the aspect ratio of the picture.**

1 Press **SETUP** in the stop mode.
Press ◀ or ▶ to select "Picture"

2 Press ▼ or **ENTER**, then press ▲ or ▼ to select "Tv Screen".




3 Press ▶ or **ENTER**.
Press ▲ or ▼ to select your desired screen type, then press **ENTER**.




You have the following screen sizes to choose from:

**4:3 ▭ Letter box**
When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

**4:3 ▭ Panscan**
It displays the wide picture on the whole screen with left and right edges automatically cut off.

**16:9 ▭ Wide screen**
A wide screen picture is displayed full size, although the image on the screen may be geometrically distorted in this mode because the TV screen has an aspect ratio of 4:3 not 16:9. However it is possible to connect this set to an external widescreen (16:9) TV set via the SCART socket (see P.9).

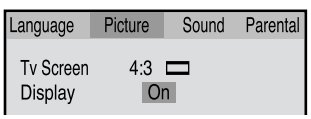
4 Press **SETUP** or **RETURN** to remove the Menu screen.

## Setting on screen display

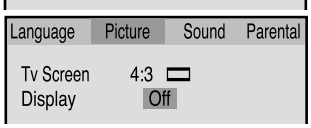
**On screen display can be switched on or off when you press the buttons.**

1 Press **SETUP** in the stop mode or No Disc.
Press ◀ or ▶ to select "Picture".

2 Press ▼ or **ENTER**, then press ▲ or ▼ to select "Display".



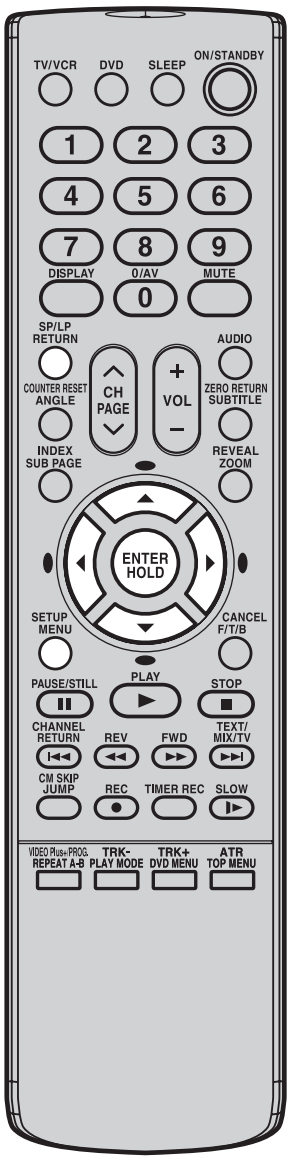

3 Press ▶ or **ENTER** to select "On" or "Off".




**On:** On screen displays appear when you press the buttons (factory setting).
**Off:** On screen displays do not appear when you press any buttons except **SETUP/MENU**, **PLAY MODE** and **DISPLAY**.

4 Press **SETUP** or **RETURN** to remove the Menu screen.

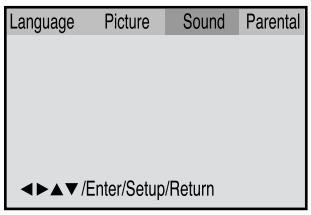
**DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.**



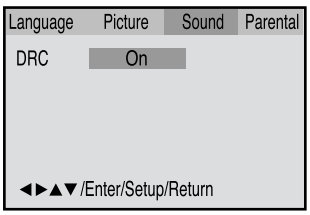

**NOTES:**

- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on DVD video disc.

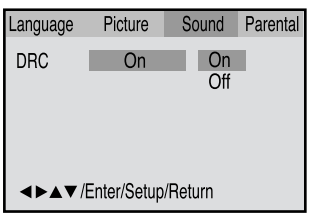
1 Press **SETUP** in the stop mode or No Disc.
Press ◀ or ▶ to select "Sound".




2 Press ▼ or **ENTER** to select "DRC".




3 Press ▶ or **ENTER**.
Press ▲ or ▼ to select desired setting, then press **ENTER**.

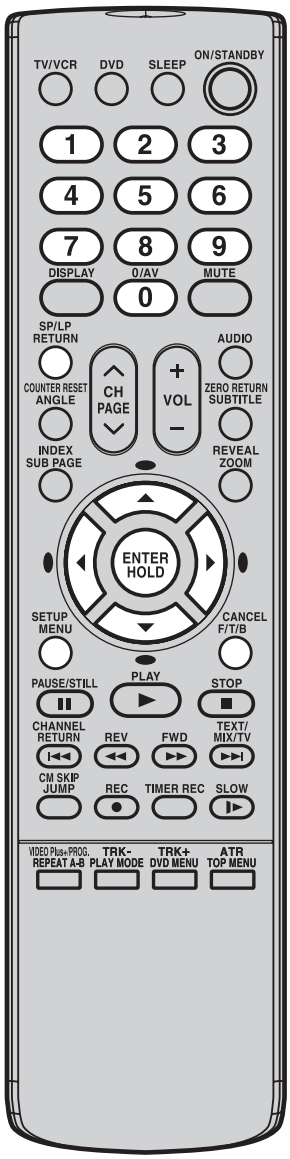



**Off (Max)** : Full dynamic range is increased.
**On (Std)** : Full dynamic range is maintained.

4 Press **SETUP** or **RETURN** to remove the Menu screen.

# PARENTAL CONTROL SETTING

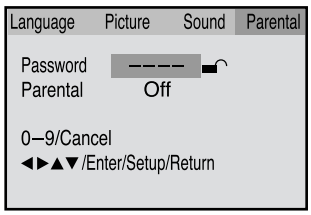
**Some discs are specified not suitable for children. Such discs can be limited not to play back with the unit.**



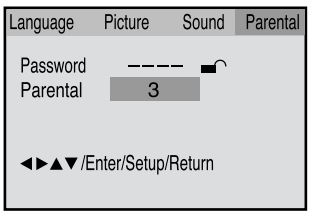

**NOTES:**

- **If each setup (P.36, 48–51) has been completed, the unit can always be worked under the same conditions (especially with DVD discs). Each setup will be retained in the memory when you turn the power off.**
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says “adult.” For those discs, the age restriction will not work.

**1** Press **SETUP** in the stop mode or No Disc.
Press ◀ or ▶ to select “Parental”. Then press ▼ or **ENTER**.



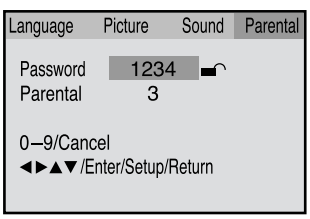

**2** Press ▲ or ▼ to select “Parental”, then press ◀ or ▶ until the level you require appears.




- **Level Off :** The parental control setting does not function.
- **Level 8 :** Virtually all DVD software can be played back.
- **Level 1 :** DVD software for adults cannot be played back.

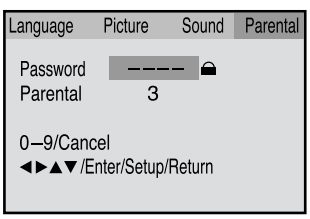
- Select from level 1 to level 8. The limitation will be more severe as the level number decreases.

**3** Press ▲ or ▼ to select “Password”.
Press **number buttons (0-9)** to input a 4-digit password. Be sure to remember this number!
- If you input a wrong number, press **CANCEL**.



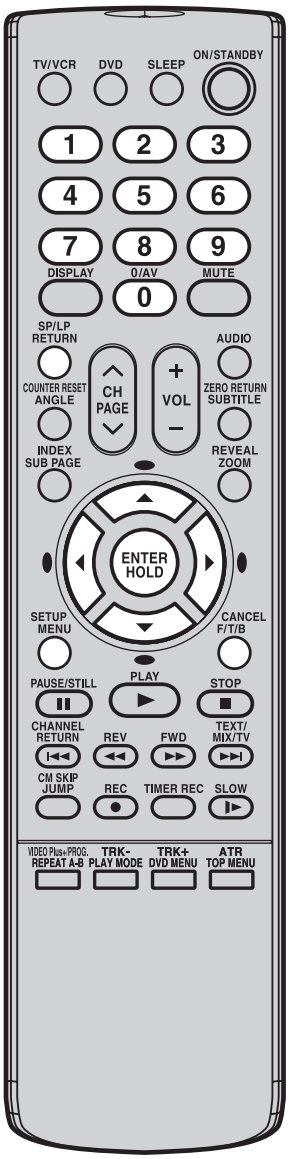

**4** Press **ENTER** to store the password.

**NOTE:** Now the rating is locked and the setting cannot be changed unless you enter the correct password.




**5** Press **SETUP** or **RETURN** to remove the Menu screen.

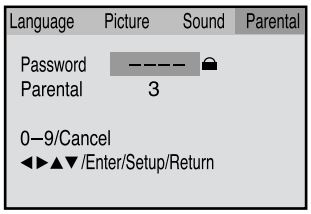
# TO CHANGE THE PARENTAL LEVEL




**NOTES:**

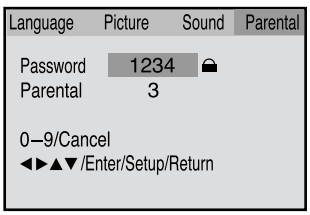
- Do not forget the password. If you forget your password, or would like to change it, you can reset the code by pressing both the DVD STOP button on the unit and the number 7 button on the remote control for approx. 3 seconds simultaneously.
  Please contact the customer helpline on page 57 for details.
- If parental level is set in stop mode, the parental control is not activated when PLAY is pressed. You need to press OPEN/CLOSE to activate parental control.

1 Press **SETUP** in the stop mode or No Disc.
Press ◄ or ► to select "Parental". Then press ▼ or **ENTER**.

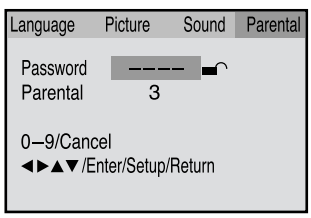



2 Press **number buttons (0-9)** to enter the password you have stored.

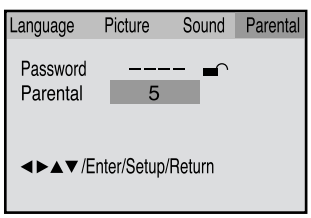
- If you input a wrong number, press **CANCEL**.




3 Press **ENTER**.
The rating is now unlocked.

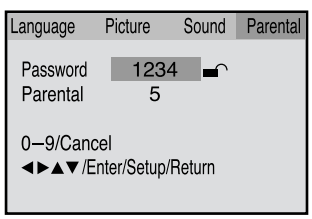



4 Press ▲ or ▼ to select "Parental", then press ◄ or ► to change the parental level.

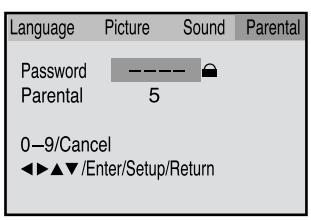



5 Press ▲ or ▼ to select "Password", then press **number buttons (0-9)** to enter the password.

**NOTE:** You can change the password at this time if you want.




6 Press **ENTER**.
The parental level is changed and locked.

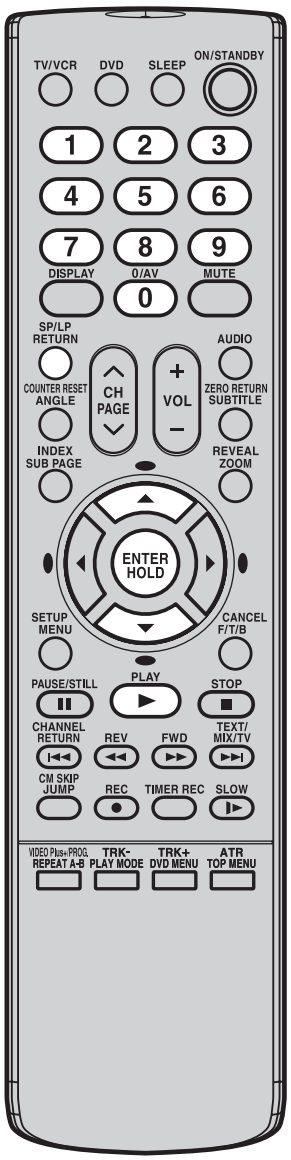



7 Press **SETUP** or **RETURN** to remove the Menu screen.

8 Press ⏏ **(OPEN/CLOSE)** on the unit to activate parental control.

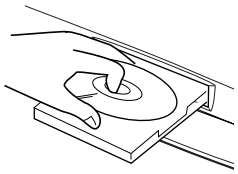
# TEMPORARY DISABLING OF RATING LEVEL BY DVD DISC

**Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set.**
**It is up to you to decide whether to cancel the rating level or not.**

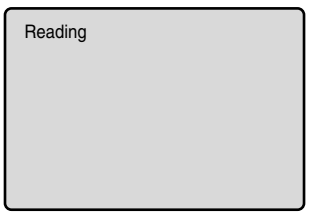


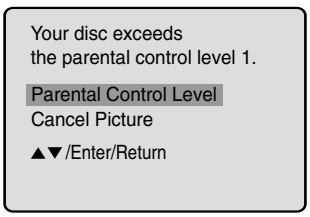

**NOTE:**
This temporary cancellation of rating level will be kept until the disc is ejected.
When the disc is ejected, the original rating level will be set again automatically.

1 Load a DVD disc and press **PLAY** (see page 37).



2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the “Reading” screen will change, depending on which disc is played. If you select “YES” with **ENTER** key, “Your disc exceeds the parental control level 1.” (e.g.) screen will then appear.

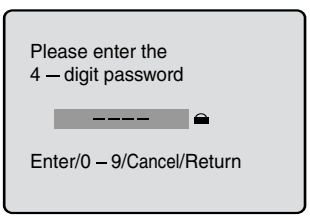



3 If you wish to cancel the set rating level temporarily, select “Parental Control Level” with ▲ or ▼, then press **ENTER**. If the 4-digits password at step **3** on page 50 has been set, the password entering screen will appear as shown in step **4** below.
Alternatively, if the password has not been set, playback will commence. If you don’t know (or have forgotten) the password, select “Cancel Picture”.
The setting screen will disappear. Press ⏏ **(OPEN/CLOSE)** on the unit to remove the disc.

4 Enter the password with **number buttons (0-9)**.
Then press **ENTER**.

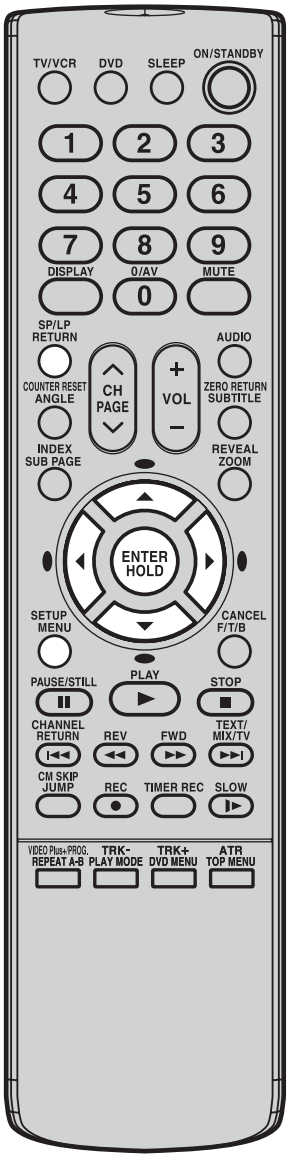
If you interrupt the entering, press **RETURN**.




5 Playback will commence if the entered password was correct.

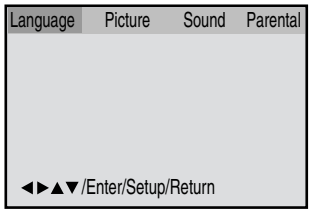
# SETTING SUBTITLE LANGUAGE

**The same subtitle language can always be selected even if you replace the disc or turn the power off.**

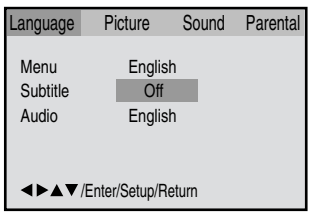



**NOTE:**
If the selected language is not recorded on the disc, the first priority language is selected.

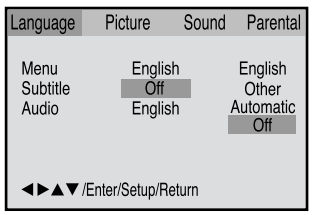
1 Press **SETUP** in the stop mode.
Press ◀ or ▶ to select "Language"




2 Press ▼ or **ENTER**.
Then press ▲ or ▼ to select "Subtitle".




3 Press ▶ or **ENTER**.
Press ▲ or ▼ to select your desired language, then press **ENTER**.




**English:**
The subtitle is displayed with the selected language if it is recorded on the disc.

**Other:**
If you want to select another language, enter the language code (See the Language code list on page 55).

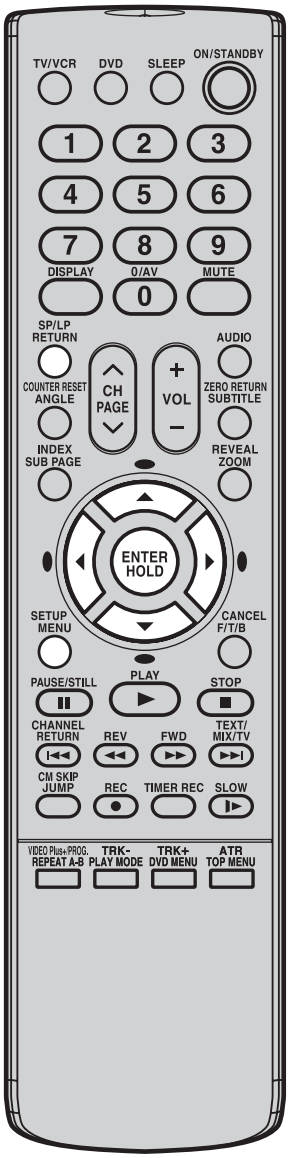
**Automatic:**
- The unit will automatically select the same language in the AUDIO setting.
- When the unit selects the same language as the AUDIO, the subtitles will not appear during playback.
- When you do not use the same language as the AUDIO, the subtitles will appear during playback.

**Off:**
Subtitles do not appear.

4 Press **SETUP** or **RETURN** to remove the Menu screen.

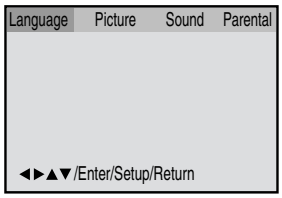
# SETTING AUDIO SOUNDTRACK LANGUAGE

**The same audio soundtrack language can always be selected by your unit even if you replace the disc or turn the power off.**

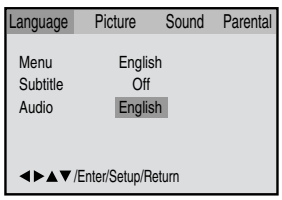



**NOTE:**
If the selected language is not recorded on the disc, the original language will be heard.

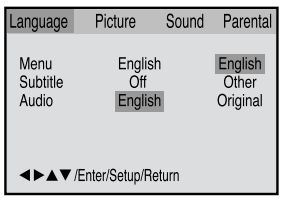
1 Press **SETUP** in the stop mode.
Press ◀ or ▶ to select "Language".




2 Press ▼ or **ENTER**.
Then press ▲ or ▼ to select "Audio".




3 Press ▶ or **ENTER**.
Press ▲ or ▼ to select your desired Audio Language, then press **ENTER**.




**English:**
The language you have selected will play if it is recorded on the disc.

**Other:**
If you want to select another language, enter the language code (See the Language code list on page 55).

**Original:**
The unit will select the first priority language of each disc.

4 Press **SETUP** or **RETURN** to remove the Menu screen.

# LANGUAGE CODE LIST

Enter the appropriate code number for the initial settings “Menu”, “Subtitle” and/or “Audio” (see pages 36, 53, 54).

| Language Name | Code | Language Name | Code | Language Name | Code | Language Name | Code |
|---|---|---|---|---|---|---|---|
| Abkhazian | 1112 | Fiji | 1620 | Lingala | 2224 | Singhalese | 2919 |
| Afar | 1111 | Finnish | 1619 | Lithuanian | 2230 | Slovak | 2921 |
| Afrikaans | 1116 | French | 1628 | Macedonian | 2321 | Slovenian | 2922 |
| Albanian | 2927 | Frisian | 1635 | Malagasy | 2317 | Somali | 2925 |
| Amharic | 1123 | Galician | 1722 | Malay | 2329 | Spanish | 1529 |
| Arabic | 1128 | Georgian | 2111 | Malayalam | 2322 | Sundanese | 2931 |
| Armenian | 1835 | German | 1415 | Maltese | 2330 | Swahili | 2933 |
| Assamese | 1129 | Greek | 1522 | Maori | 2319 | Swedish | 2932 |
| Aymara | 1135 | Greenlandic | 2122 | Marathi | 2328 | Tagalog | 3022 |
| Azerbaijani | 1136 | Guarani | 1724 | Moldavian | 2325 | Tajik | 3017 |
| Bashkir | 1211 | Gujarati | 1731 | Mongolian | 2324 | Tamil | 3011 |
| Basque | 1531 | Hausa | 1811 | Nauru | 2411 | Tatar | 3030 |
| Bengali; Bangla | 1224 | Hebrew | 1933 | Nepali | 2415 | Telugu | 3015 |
| Bhutani | 1436 | Hindi | 1819 | Norwegian | 2425 | Thai | 3018 |
| Bihari | 1218 | Hungarian | 1831 | Oriya | 2528 | Tibetan | 1225 |
| Breton | 1228 | Icelandic | 1929 | Panjabi | 2611 | Tigrinya | 3019 |
| Bulgarian | 1217 | Indonesian | 1924 | Pashto, Pushto | 2629 | Tonga | 3025 |
| Burmese | 2335 | Interlingua | 1911 | Persian | 1611 | Turkish | 3028 |
| Byelorussian | 1215 | Irish | 1711 | Polish | 2622 | Turkmen | 3021 |
| Cambodian | 2123 | Italian | 1930 | Portuguese | 2630 | Twi | 3033 |
| Catalan | 1311 | Japanese | 2011 | Quechua | 2731 | Ukrainian | 3121 |
| Chinese | 3618 | Javanese | 2033 | Rhaeto-Romance | 2823 | Urdu | 3128 |
| Corsican | 1325 | Kannada | 2124 | Romanian | 2825 | Uzbek | 3136 |
| Croatian | 1828 | Kashmiri | 2129 | Russian | 2831 | Vietnamese | 3219 |
| Czech | 1329 | Kazakh | 2121 | Samoan | 2923 | Volapük | 3225 |
| Danish | 1411 | Kirghiz | 2135 | Sanskrit | 2911 | Welsh | 1335 |
| Dutch | 2422 | Korean | 2125 | Scots Gaelic | 1714 | Wolof | 3325 |
| English | 1524 | Kurdish | 2131 | Serbian | 2928 | Xhosa | 3418 |
| Esperanto | 1525 | Laothian | 2225 | Serbo-Croatian | 2918 | Yiddish | 2019 |
| Estonian | 1530 | Latin | 2211 | Shona | 2924 | Yoruba | 3525 |
| Faroese | 1625 | Latvian, Lettish | 2232 | Sindhi | 2914 | Zulu | 3631 |

# BEFORE REQUESTING SERVICE

If your unit does not work properly check the following before calling a service engineer.

| SYMPTOMS | CAUSE | SOLUTION | PAGE |
|---|---|---|---|
| **POWER** | | | |
| No power. | The Mains lead is not connected. | Connect Mains lead to AC outlet. | 7 |
| | Main power switch is OFF. | Set it to ON. | 4 |
| Recorder does not work even though STANDBY light is on. | TIMER REC buttons is ON. (TIMER REC indicator is on.) | Set it to OFF. (TIMER REC indicator is off.) | 23 |
| | Moisture condensation has formed inside recorder. | Wait for a few hours. | 2 |
| **TV BROADCAST RECEPTION** | | | |
| No picture, no sound. | The Mains lead is disconnected. | Connect the Mains lead to the AC outlet. | 7 |
| | Aerial connector is not connected or wires are broken. | Check aerial connections or broken wires. | 7 |
| | The ON/STANDBY button is off. | Press **ON/STANDBY**. | 4 |
| | Possibly station trouble. | Try another channel. | 13 |
| Sound OK, poor picture. | Possibly station trouble. | Try another channel. | 13 |
| | Aerial connector is not connected or wires are broken. | Check aerial connections or broken wires. | 7 |
| | Possibly local interference. | Move the aerial away from the source of interference. | 58 |
| Picture OK, poor sound. | Possibly station trouble. | Try another channel. | 13 |
| | Possibly local interference. | Move the aerial away from the source of interference. | 58 |
| | Volume control set at minimum position. | Increase VOLUME control. | 13 |
| Poor reception. | Aerial connector is not connected or wires are broken. | Check aerial connections or broken wires. | 7 |
| | Possibly station trouble. | Try another channel. | 13 |
| Poor colour or no colour. | Aerial connector is not connected or wires are broken. | Check aerial connections or broken wires. | 7 |
| | Possibly station trouble. | Try another channel. | 13 |
| | Possibly local interference. | Move the aerial away from the source of interference. | 58 |
| | Colour control is not adjusted. | Adjust the colour settings. | 14 |
| **VCR** | | | |
| Recording does not work. | Protection tab on the cassette tape has been removed. | Place an adhesive tape over the gap. | 17 |
| Timer recording does not work. | Main power switch is OFF. | Set main power to ON. | 4 |
| | Clock is not set. | Set the clock. | 11 |
| | START/END time is not set correctly. | Set the START/END time correctly. | 23 |
| | TIMER REC button is OFF. | Set the TIMER REC button to ON. | 23 |
| | Present time is not set correctly. | Set the present time correctly. | 11 |
| | One-Touch Timer Recording (OTR) is ON. | After OTR recording, set the timer recording. | 25 |
| INDEX mark was not registered. | INDEX mark was recorded at the beginning of the tape. | Let the tape run for a couple of seconds before recording the first INDEX mark. | 29 |
| Noise bars on screen. | Tracking is not adjusted. | Adjust the TRACKING control. | 18 |
| | Video heads are dirty. | Clean the video heads. | 58 |
| | The tape is worn or damaged. | Try another tape. | – |
| Can not locate INDEX mark. | The tape is worn or damaged. | Try another tape. | – |
| **DVD** | | | |
| The playback picture has occasional distortion. | The disc is dirty. | Eject the disc and clean it. | 34 |
| | It is in fast forward or fast reverse playback. | Some times a small amount of picture distortion may appear. This is not a malfunction. | – |

| SYMPTOMS | CAUSE | SOLUTION | PAGE |
|---|---|---|---|
| **DVD** | | | |
| The unit does not start playback. | No disc is inserted. | Insert a disc. | **37** |
| | An unplayable disc is inserted. | Insert a playable disc (Check the disc type and colour system). | **34** |
| | The disc is placed upside down. | Place the disc with the playback side down. | **37** |
| | The disc is not placed within the guide. | Place the disc correctly inside the guide on the disc tray. | **37** |
| | The disc is dirty. | Clean the disc. | **34** |
| | The parental lock function is set. | Cancel the parental lock function or change the parental lock level. | **50,51** |
| Playback does not follow the course of the disc's program. | It is in the mode of repeat playback, memory playback, etc. | These operations may prevent a proper progress of the contents. | **–** |
| ✋ appears on the screen. | The function is prohibited with the unit or the disc. | – | **–** |
| **REMOTE CONTROL** | | | |
| Remote control does not work. | It is not aimed at the remote sensor. | Aim it at the remote control sensor. | **6** |
| | Distance too far or there is too much light in the room. | Operate within 5 metres and reduce the light of the room. | **6** |
| | Obstacle in the path of beam. | Clear the path of the beam. | **6** |
| | Batteries are weak. | Replace batteries. | **6** |
| | Polarities of the batteries, + or –, are not inserted correctly. | Install batteries correctly. | **6** |

**NOTE: In the case that the scart input of the unit is connected to AV1 scart of a recordable equipment such as a VTR, DVD+VTR, DVD-R etc. and when the input of the recordable equipment is also selected to AV1, there maybe some white flashing lines on the screen and a high pitch sound may also be heard. This is due to the feedback loop of the connections to the unit and it is not a defect of the unit.**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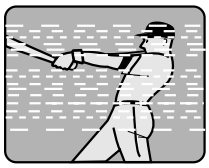
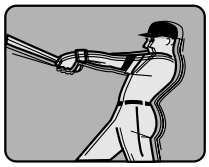
# RECEPTION DISTURBANCE/VIDEO HEAD CLOGGING

The most common types of television interference are as follows.

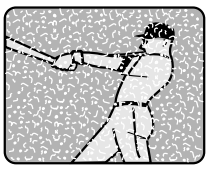
**IGNITION**
Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from car ignition systems, neon lamps, electrical drills and other electrical appliances.



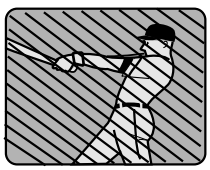
**GHOSTS**
Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other object. Changing the direction or position of the antenna may improve the reception.



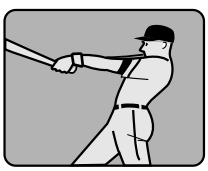
**SNOW**
If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



**RADIO FREQUENCY INTERFERENCE**
The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

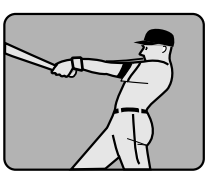


**PICTURE SIZE VARIATION**
A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS control.

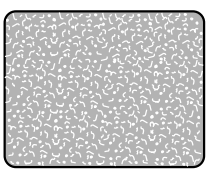


**CARE AND MAINTENANCE**
To prevent fire or shock hazard, disconnect the unit from the AC power source before cleaning. The finish on the cabinet may be cleaned with mild soap and a soft damp cloth. Take care when cleaning or wiping the plastic parts.

**VIDEO HEAD CLOGGING**
The video heads record and playback picture and sound on the video tape. In the event that they become dirty you won't be able to do a perfect recording and the playback picture will be extremely snowy with good sound. If this happens have the unit checked by qualified service personnel.



Good Picture



Snowy Picture

**NOTES:**

- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head cleaning, use only good quality VHS tapes. Discard worn tapes.

**TELEVISION**

| | |
|---|---|
| Picture Tube: | 21" (51 cm "V") measured diagonally<br>90 degree deflection |
| Television System: | UK 625 Lines 50 Fields<br>PAL I |
| Tuner: | 2 Tuners |
| Receiving Channels: | UHF: 21 - 69 |
| Aerial Input: | UHF 75 ohm unbalanced |
| Audio Output Power: | 1.5 W+1.5 W (max) |
| Speaker: | (4.6 x 9.9 cm 8 ohm) x 2 |

**VCR**

| | |
|---|---|
| Video Recording System: | VHS, 4 Rotary Heads Helical Scanning System<br>Luminance: FM azimuth recording<br>Color signal: converted sub-carrier phase shift recording |
| Audio Track: | 1 Track |
| Tape Format: | 12.65mm high density tape |
| F. FWD/REW Time at 25°C: | Approx. 1 minute 48 seconds (With E-180 Cassette Tape) |
| Tape Speed: | SP: 23.39 mm/s, LP: 11.69 mm/s (NTSC SP: 33.35 mm/s) |
| Play Back Time: | 300 min.with E-300 video cassette (PAL)<br>210 min.with T-210 video cassette (NTSC) |
| Input Level: | VIDEO: 1 Vp-p, 75 Ω<br>AUDIO: 500 mV, 50 k Ω |
| Output Level: | VIDEO: 1 Vp-p, 75 Ω<br>AUDIO: 500 mV, 1 k Ω |
| Hi-Fi Dynamic Range: | More than 75dB |
| Frequency Response: | 20Hz to 20,000Hz |

**DVD**

| | |
|---|---|
| Signal system: | PAL |
| Applicable disc: | DVD (12cm, 8cm), CD (12cm, 8cm) |
| Frequency response: | DVD: 4Hz - 22KHz<br>CD: 4Hz - 20KHz |
| S/N Ratio: | 90dB |
| Harmonic distortion: | 0.06% |
| Wow and flutter: | Below Measurable Level |
| Output: | Audio : (RCA) –12.0 dBm, 1Kohm<br>Digital Audio : 0.5Vp-p/75 ohm |
| Pickup: | CD : Wavelength: 775 - 805 nm<br>Maximum output power: 0.5 mW<br>DVD : Wavelength: 640 - 660 nm<br>Maximum output power: 1.0 mW |

**GENERAL**

| | |
|---|---|
| Power Source: | AC 230~240V, 50Hz |
| Power Consumption: | 80 W |
| Weight: | 27.5 kg |
| Dimensions: | 573(W)x517(H)x482(D) mm |
| Operating Temperature: | 5°C to 40°C |

**REMOTE CONTROL UNIT**

| | |
|---|---|
| Power Supply: | DC 3V (Two batteries, AAA/ R03/ UM-4) |

**ACCESSORIES**

Remote control unit
2 Batteries (AAA/R03/UM-4)
Aerial lead

**Weight and Dimensions are approximate. Because we continually strive to improve our products we may change specifications and designs without prior notice.**

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## MEMO

# MEMO

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